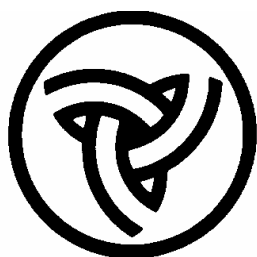


# Videotape/Publication

2004

# Library Catalog



**Illinois Department  
of Transportation**





# The Illinois Technology Transfer Center

Our Nation's roads and bridges play a vital role in our transportation system. They link farms, small communities and busy urban centers - supporting and enhancing safety, commerce, and quality of life for everyone.

From the beginning, the concept of the Local Technical Assistance Program (LTAP) was to provide local highway agencies with improved access to new technologies for the construction, operation, maintenance, and safety of their road and street systems. To carry out the concept, a nationwide network of "Technology Transfer" Centers was established in cooperation with the state highway agencies. These Centers now operate efficient and effective programs for local agencies in their states.

The Illinois Technology Transfer Center (T<sup>2</sup>) is one of 58 T<sup>2</sup> Centers established by the Federal Highway Administration under LTAP. The purpose of the Technology Transfer Center is to share information between federal, state, and local agencies.

The Illinois T<sup>2</sup> Center provides training, technical assistance, and information to local highway agencies, IDOT personnel, and consulting firms. These services are provided through the "Illinois Interchange" newsletter, T<sup>2</sup> Training Classes and Seminars, the Videotape/Publication Library, and the Research and Information Library.

For more information about the T<sup>2</sup> Center and its activities, contact us at:

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# Introduction

The Technology Transfer Center has created the Videotape/Publication Library Catalog to provide local agencies with a listing of available videotapes and publications in a more manageable format. The Videotape/Publication Library is a valuable source of information. The videotapes and publications can be used for on-site training, as presentation aids, and as subject specific information sources.

Some of the materials presented were produced in other states and have been included because of the general process, procedure or information that they provide. Some of the specific details, policies or references mentioned may not be available or may not conform to IDOT policy.

The **Videotape Library** is composed of two sections. The first section is **Loan/Reproduction** videotapes which are numbered V001-V499 and the second section is **Special Interest** videotapes which are numbered V500-V999.

The **Loan/Reproduction** videotapes have been reviewed for content, technical presentation, and relevance to our audience. Many of these tapes are used for training. These videotapes have the following guidelines for distribution:

1. The IL T<sup>2</sup> Center reproduces copies of these videotapes as requested. On these tapes, we will record one video per blank videotape furnished. Please submit one blank videotape for each tape requested.
2. The IL T<sup>2</sup> Center loans these videotapes (maximum of 4) for two weeks during which time these tapes may be copied.
3. The IL T<sup>2</sup> Center places electronic video streams on the internet for downloading or web viewing.

Congress established the Strategic Highway Research Program (SHRP) in 1987 as a five year, \$150 million research program to improve the performance and durability of our nation's roads and to make those roads safer for both motorists and highway workers. Independent contractors performed the research and targeted four areas: highway operations, concrete and structures, asphalt, and long term pavement performance (pavement engineering). The SHRP videotapes (V155-V170) are being offered as a way of sharing information on these new technologies. This is not an endorsement by the Illinois Department of Transportation or the Illinois Technology Transfer Center for the particular products or information presented.

The **Special Interest** videotapes include project and product demonstration videos, promotional videos, and specialty videos. Many of these videos can be used to accompany training seminars, presentations, or speaking engagements. These videotapes are for loan only. Many of these videotapes are protected by copyright, and MAY NOT BE DUPLICATED without specific written permission of the source. We will loan these tapes for two weeks.

# Catalog Organization

The videotape/publication catalog is divided into three parts - Topic Headings, Videotape/Publication Descriptions, and an Appendix.

## **Videotapes/Publications Listed by Topic Heading**

This section provides a combined listing of all videotapes/publications in the IL T<sup>2</sup> Center's library. The videotapes/publications are organized into the following topic headings:

- Bridges, Culverts, and Drainage
- Computers
- Engineering
- Equipment
- Legal
- Management
- Road Construction and Maintenance
- Safety
- Traffic
- Winter
- Miscellaneous

## **Videotape/Publication Descriptions**

Section 1, Loan/Reproduction, and Section 2, Special Interest, contain videotape descriptions that include the inventory number, the length of the video, the source (if known), and a brief description of the content.

Section 3 lists all publications that are available. All publications are free of charge. Each publication listing includes a brief description and the source. Due to a limited number of SHRP and FHWA publications, distribution will be on a first come, first served basis, while they last.

The SHRP and FHWA publications are being offered as a way of sharing information on new technologies. This is not an endorsement by the Illinois Department of Transportation or the Technology Transfer Center for the particular products or information presented.

## **Appendix**

Appendix A lists videotapes/publications alphabetically by title.

Appendix B lists videotapes/publications alphabetically by source.

Appendix C contains an abbreviation guide

Appendix D contains the order form

# Using the Catalog

For example, you're looking for a videotape on pothole repairs. First, go to the topic heading "Road Construction and Maintenance" on page viii. Scan this section for items relating to potholes (L003, L005, P009, V002, and V075). The page number for the full description is given for each item (e.g. L003's description is on page 3-5). After determining what items you need, fill out the order form located in Appendix D.

If you are searching for a specific item by title, Appendix A in the back of this catalog (pages A1 - A10) lists the videotapes/publication alphabetically by title with the corresponding page number. If you are searching for a specific item by source, Appendix B in the back of this catalog (pages B1 - B12) lists the videotapes/publications alphabetically by source with the corresponding page number.

## Videotapes/Publications Listed by Topic Heading

<b>Bridge, Culverts, and Drainage</b>		Page Number
L018	Improving Highway Safety at Bridges on Local Roads	3-7
V009	Culvert Replacement	1-1
V049	Bridge Maintenance for Local Road Crews	1-5
V076	Bridge Deck Construction in Illinois	1-7
V085	Aesthetic Bridge Rails and Guardrails	1-9
V086	Concrete Bridge Railings: The Modified Three Beam Guardrails - Cable Guardrails	1-10
V087	Cleaning and Clearing of Bridges	1-10
V088	Concrete Bridge Deck Repair	1-10
V089	Bridges Unbroken Inspection of Timber Piling	1-10
V104	Bridge Evaluation and Posting	1-11
V106	Mechanical Cleaning of Unlined Ditches	1-11
V116	Clark Bridge and Price Lock	1-12
V117	Old Clark Bridge Demolition	1-12
V123	Full Containment Bridge Painting	1-12
V147	Bridge Deck Repair	1-14
V150	Timber Bridge #2	1-14
V154	Modern Timber Bridges	1-15
V155	Bridge Deck Overlays	1-15
V156	Concrete Bridge Protection, Repair, and Rehabilitation	1-15
V174	Causes of the Failures of the Failures of the Big Sioux Bridge	1-16
V177	White Gold	1-17
V178	Prefabricated Timber Bridge Deck Panels	1-17
V519	Super Bridge	2-3
 <b>Computers</b>		 Page Number
V504	Computer Literacy	2-1
V523	Discovering the Internet	2-3

<b>Engineering (preliminary engineering, design, testing)</b>		<b>Page Number</b>
FTB1	Life Cycle Cost Analysis	3-10
L001	Specifications for Chip Seal, Slurry Seals and Crack Sealing	3-6
L006	Distress Identification Manual for the Long Term Pavement Performance Project	3-6
L011	Highway/Utility Guide	3-7
P008	Rating Unsurfaced Roads	3-1
P016	Concrete - PASER Manual	3-2
P017	Asphalt - PASER Manual	3-2
P022	Gravel - PASER Manual	3-3
P025	Implementing Bicycle Improvements at the Local Level	3-3
P026	Specifications & Special Provisions: Development and Usage for Local Agencies.	3-3
V031	Subsurface Utility Engineering	1-3
V042	Setting Speed Limits	1-4
V055	Roadway Design: Balancing Safety, Environment, and Cost	1-6
V062	Stressing Our Future	1-6
V090	A Gift of Value - Value Engineering	1-10
V094	Pedestrian Safety: What you Can Do	1-10
V099	Walk	1-10
V108	Air Quality Conformity in Transportation	1-11
V153	Field Testing Concrete	1-14
V160	Alkali-Silica Testing	1-15
V166	Quality Control of Concrete on Site	1-16
V168	Freeze-Thaw Testing	1-16
V183	Recommended Use of Recycled Asphalt Pavement in the Superpave Mix Design Method	1-17
V561	Highway Safety Improvement Program - Traffic Safety	2-6
V562	Highway Safety Improvement - Equipment Management Systems Series	2-6
<b>Equipment (vehicle maintenance, operation, safety)</b>		<b>Page Number</b>
V003	Motorgrader	1-1
V004	Loader Operations	1-1
V005	Trucks	1-1
V008	Commercial Driver's License	1-1
V010	Loading and Towing Heavy Equipment	1-2
V012	Radio Communication, Your Vital Link	1-2
V023	Equipment Maintenance: Program and Scheduling	1-3
V033	Backhoe Operation & The Hazards of Hurry	1-4
V039	Pneumatic Tire Operation	1-4
V040	Forklift Operation	1-4
V054	Brush Cutter	1-5
V118	Modified Rock Spreader	1-12
V502	All American Disk	2-1
V522	Principles of the Asphalt Paver	2-3



<b>Legal (tort liability, risk management)</b>		<b>Page Number</b>
V041	Work Zone Safety - Legal Liability	1-4
V043	Local Government on Trial	1-4
V096	Caution, Litigation Ahead: The Road to Effective Risk Management	1-10
<b>Management (administration, planning, record keeping)</b>		<b>Page Number</b>
L029	Primer: GASB 34	3-9
P015	Handbook on Successful Supervision for Local Road Supervisors	3-2
P018	General Administrative Duties of the Township Highway Commissioner	3-2
P020	Pocket Guide: GASB 34 Phase III Local Government	3-3
P031	Motor Fuel Tax Funds: Source, Distribution, & Uses for Counties	3-4
P032	Motor Fuel Tax Funds: Source, Distribution, & Uses for Municipalities	3-4
P033	Motor Fuel Tax Funds: Source, Distribution, & Uses for Road Districts	3-4
P034	Jurisdictional Transfer Guidelines for Highway and Street Systems	3-4
P035	Response Handbook for Incidents, Disasters, and Emergencies (R.H.I.D.E.)	3-4
V024	Subdivisions: A Local Dilemma	1-3
V029	Pavement Management System for Local Administrators	1-3
V066	Equipment Management Systems	1-6
V067	Smart Moves	1-6
V073	Storm Water Management Systems	1-7
V074	General Administrative Duties of Highway Commissioners Seminar	1-7
V158	Technical Advancements for Maintenance Workers	1-15
V514	AGC Partnering Program	2-2
V520	Why So Many Questions?	2-3
V556	Qualification Based Selection (Contractor Selection)	2-5
V563	Pavement Management Systems (PMS)	2-6
V564	Maintenance Management Systems (MMS)	2-6

<b>Miscellaneous</b>		<b>Page Number</b>
L007	LTAP Resource Directory	3-6
L009	Emergency Relief Manual (Federal-Aid Highways)	3-7
L010	LTAP Solutions	3-7
L020	Real Estate Acquisition Guide	3-8
L021	Intelligent Transportation Systems: Peer to Peer Program	3-8
P000	Illinois Technology Transfer's Videotape/Publication Catalog	3-1
P002	Ten Signal List	3-1
P010	Local Low Volume Roads and Streets	3-1
P011	Writing the Metric Way	3-1
P029	The Illinois Grade Crossing Protection Fund	3-3
P039	Accessible Public Rights-of-Way Design Guide	3-4
P042	Context Sensitive Solutions: Report to the Illinois Governor and General Assembly	3-5
V015	The Idea Store	1-2
V038	Shooting Good Video	1-4
V061	Your Public Image	1-6
V069	Train the Trainer - Turning Field Experts into Expert in the Classroom	1-7
V071	Illinois Adopt-a-Highway	1-7
V078	Frost Action in Soils	1-8
V084	Let's Clean the Air	1-9
V101	Training: The Obscured Advantage	1-11
V109	FHWA Emergency Relief Program	1-11
V111	Comparable Concepts for Replacement Housing	1-11
V112	Making the Effort Works: Reducing Utility Delays During Construction	1-11
V124	IDOT Aerial Surveys Section	1-12
V125	IDOT Bridges to Your Future	1-12
V132	Accessible Sidewalks: Design Issues for Pedestrians with Disabilities	1-13
V141	New Hampshire Public Works Mutual Aid Program	1-14
V171	AASHTO 1991 Technology Transfer Fair	1-16
V175	Getting Your Message Out: Evaluating Public Awareness of Transportation Issues	1-16
V176	Oakwood Bottoms-Take Wing With Us (Shawnee National Forest)	1-17
V184	Meth Labs: California's Hidden Danger	1-18
V510	SI Metric in the Workplace	2-2
V544	Road Rage	2-4

<b>Road Construction and Maintenance</b>		<b>Page Number</b>
FTB2	Motor Grader Maintenance of Aggregate Surfaced Roads	3-10
L003	Materials and Procedures for Repair of Potholes in Asphalt-Surfaced Pavements	3-6
L004	Materials and Procedures for Repair of Joint Seals in Portland Cement Concrete Pavements	3-6
L005	Innovative Materials Development & Testing: Pothole Repair	3-6
L012	Crumb Rubber Modifier	3-7
L013	The Superpave System	3-7
L014	Utility Cuts In Paved Roads	3-7
L015	LTAP Asphalt and Chip Seal Checklist	3-7
L017	Problems Associated with Gravel Roads	3-7
L019	Gravel Roads Maintenance & Design Manual	3-7
L024	Materials and Procedures for Sealing and Filling Cracks in Asphalt-Surfaced Pavements	3-8
L025	Materials and Procedures for Rapid Repair of Partial-Depth Spalls in Concrete Pavements	3-8
P009	Pothole Primer	3-1
P019	Dust Control	3-2
P021	Extended Life Continuously Reinforced Concrete Pavement	3-3
P028	Superpave Fundamentals Reference Manual	3-3
P036	Detectable Warnings: Synthesis of U.S. and International Practice	3-4
P038	Selecting a Preventive Maintenance Treatment for Flexible Pavements	3-4
P041	Asphalt Seal Coats	3-5
V002	Pothole Patching	1-1
V006	Crack and Joint Sealing	1-1
V011	Safe Mowing Procedures	1-2
V013	Shoulder Repair and Ditch Cleaning	1-2
V017	Tire Chip Feature	1-2
V020	Hydrated Lime - Key to Improved Pavements	1-3
V021	BOMAG: In-Place Recycling	1-3
V025	Partial Depth Patching	1-3
V026	Handling Pesticides Safely-Herbicides	1-3
V027	Blading Unpaved Roads	1-3
V030	Seal Coating: A Matter of Science & Skill	1-3
V032	Soil Stabilization: Selecting a Modifier	1-3
V044	Geotextiles Installation on Gravel Roads	1-4
V045	Problems with Gravel Roads	1-5
V046	Chip Seal Applications	1-5
V047	Asphalt Paving Inspection	1-5
V057	Utility Cut Repair: Doing it Right	1-6
V059	Concrete Rubblization and Asphalt Overlay of I-57	1-6
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V064	Importance of Road Drainage	1-6
V075	Pothole Repair: Proven Practices	1-7
V079	Protecting Our Pavement: PREVENTIVE Maintenance	1-8
V095	Common Maintenance Problems/Corrections	1-10
V097	Reshaping Earth and Gravel Shoulders	1-10
V098	Base and Sub-base Repair	1-10

V100	Utility Cuts in Paved Roads	1-10
V102	Diamond Advantage in Highway Grinding	1-11
V103	Bituminous Seal Coat	1-11
V105	Fit To Be Tied: Retrofitting PCC Pavement with Dowel Bars, Dowel Bar Insertion for Load Transfer at Mid Panel Crack, Retrofitted Load Transfer Devices	1-11
V110	Stockpile Recovery to Minimize Segregation	1-11
V114	Effective Pavement Preservation by Identifying Distress Conditions, Causes and Cures	1-12
V121	Ralumac I-474 Over Illinois River at Peoria	1-12
V122	Half-Smart Project US 36 Douglas County	1-12
V127	European Concrete Pavement: Michigan Paves the Way	1-13
V128	Bituminous Paving Inspection	1-13
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V133	Road Repair: Do the Right Thing at the Right Time	1-13
V134	Asphalt Crack Treatment	1-13
V143	In-SITU Cold Recycling	1-14
V144	Maintaining Asphalt Roads Blade Patching	1-14
V145	Erosion & Sediment Control Procedures and Practices for Construction Sites	1-14
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V152	Surface Treatment	1-14
V157	Finding Better Ways	1-15
V159	Asphalt Pavements that Perform	1-15
V161	Concrete Pavement Overlays	1-15
V162	Early Opening of Full Depth Concrete Repair	1-15
V163	Full Depth Repair of Jointed Concrete Pavements	1-15
V164	Introduction to Rehabilitation of Highway Concrete	1-15
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V179	Earth & Gravel Road Maintenance	1-17
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V181	Evaluation of Longitudinal Joint Sealant	1-17
V182	Detectable Warnings on Walking Surfaces	1-17
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V524	Cutler Repaving History	2-3
V525	How to Prevent Segregation	2-3
V527	Road Oyl: Resin Modified Emulsion	2-3
V528	Building the Notched Wedge Joint	2-3
V529	Cold In-Place Recycling	2-3
V530	Full Depth Reclamation	2-3
V531	Hot In-Place Recycling	2-3
V533	Principles in Quality Concrete	2-3
V546	Stabilization for Low Volume Roads	2-5
V548	NAPA Paving Practices for Quality	2-5
V550	AEMA Paving the Way...to the 21st Century	2-5
V551	What's Hot Mix Asphalt	2-5
V552	Ultra-Thin Whitetopping: Today's Choice for Durable Pavement Overlays	2-5
V554	In Place Concrete Recycling System	2-5
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L027	Basic Traffic Control For Utility Operations	3-8
L028	Accessible Sidewalks and Street Crossings- an informational guide	3-9
L030	2004 Emergency Response Guidebook	3-9
P014	Tailgate Talks	3-2
P027	Highway - Rail Grade Crossing Safety & Enforcement Manual	3-3
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V034	LP Gas: Know the Facts	1-4
V037	A New Way to Lift	1-4
V050	Professional Tree Care Safety: Equipment Safety	1-5
V051	Maintenance Welding: Welding Safety & Tank Repair	1-5
V052	Maintenance Welding: Gas Welding/Metal Identification	1-5
V053	Maintenance Welding: Arc Welding	1-5
V072	Meth Lab Waste Recognition for Adopt-a-Highway Volunteers	1-7
V080	Sudden Change in Plans	1-8
V091	Breakaway Timber Utility Poles	1-10
V113	Night Lights: How Retroreflectivity Makes Our Roads Safer	1-12
V126	Paths of Thunder - Safety at Railroad Crossings	1-12
V139	Chain Saw Selection, Maintenance, Use and Safety	1-14
V140	Underground Safety - Trench Shoring	1-14
V151	Hazardous Material: Design, Construction, Maintenance	1-14
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V186	Ice Age: Meth Across America	1-18
V503	Hand Signals For Crane Operation	2-1
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V507	Tool Box Talks: Scaffold Safety	2-1
V508	Avoid Hot Mix Hazards: Working Safely with Hot Mix	2-1
V509	RULES OF THE GAME: Employee Safety Orientation	2-1
V511	Drugs at Work	2-2
V512	Hazard Communication	2-2
V513	It's Everyone's Concern	2-2
V521	On Solid Ground	2-3
V534	Construction Trenching and Shoring: Hard Hat Series	2-4
V535	Defensive Driving for Government Employees	2-4
V536	PPE: Don't Start Work Without It (Safety 101)	2-4
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V549	Back Safety: Lift Well, Live Well	2-5
V553	Chainsaw Sharpening	2-5
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V557	Crisis Under Control	2-5
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V560	On Again Off Again: A Guide to Mounting and Dismounting Heavy Equipment	2-6
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<b>Traffic (signs, flagging, work zones)</b>		<b>Page Number</b>
C001	Manual on Uniform Traffic Control Devices (MUTCD)	4-1
C002	Positive Protection for Workers	4-1
L008	Innovative Devices for Safer Work Zones	3-7
L023	Traffic Control Handbook for Mobile Operations at Night	3-8
L031	Signalized Intersections: Informational Guide	3-9
P001	Work Area Protection Guide	3-1
P003	Flaggers Handbook	3-1
P004	Illinois Highway Design Standards for Traffic Control	3-1
P005	Work Zone Traffic Control	3-1
P006	Quality Standard for Work Zone Traffic Control Devices	3-1
P007	Maintenance of Signs and Sign Supports for Local Roads & Streets	3-1
P023	Work Site Protection Manual: Operation Activities and Emergency Callouts	3-3
P024	Work Site Protection Manual: Other than Highway Maintenance and Traffic Crews	3-3
P030	Signing of Road District and Township Highways	3-3
P037	Working with Positive Protection	3-4
P040	Handbook of Simplified Practice for Traffic Studies	3-5
P043	Illinois Supplement to the National Manual on Uniform Traffic Control Devices	3-5
P045	Roadway Signing Final Report	3-5
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V018	Nuts and Bolts of Jolts	1-3
V028	Flagging Operations	1-3
V036	Highway Signing	1-4
V048	Sign Maintenance and Installation	1-5
V058	Driving Modern Roundabouts	1-6
V068	Stop & Think - A Campaign Against Vandalism	1-7
V081	Highway Work Zone Safety - Traffic Control	1-8
V082	Highway Work Zone Safety - Pre-Construction	1-9
V083	Highway Work Zone Safety - Maintenance and Construction	1-9
V092	Testing and Field Inspection of Roadway Delineation	1-10
V093	Traffic Signal Systems-Go For The Green	1-10
V115	It's About Time.. Traffic Signal Management: Cost Effective Street Capacity	1-12
V119	Give 'em a Brake: Highway Work Zone Safety	1-12
V120	Kennedy Expressway's Reversible Gate System	1-12
V136	Traffic Control: What Works	1-13
V142	Breakaway Sign Program	1-14
V146	Coordinated Signal Data Acquisition and Playback System	1-14
V167	New Work Zone Safety Devices	1-16
V515	Traffic Control Series	2-2
V516	Jobsite Safety Series	2-2
V518	Right Before Your Eyes	2-3
V539	Flagging: You're the Director	2-4
V540	Highway Work Zone Safety: The Basics	2-4
V545	Quick-change Movable Barrier	2-5

<b>Winter</b>		<b>Page Number</b>
FTB3	Anti-Icing Technology	3-10
L002	Snow Fence Guide	3-6
L016	Salt Storage Handbook	3-7
L026	The Snowfighter's Handbook	3-8
P012	Safe Winter Driving on Illinois Roadways	3-2
P013	Manual of Practice for an Effective Anti-icing Program: A Guide for Highway Winter Maintenance Personnel	3-2
V016	Wetted Salt	1-2
V022	Staying Ahead of the Storm	1-3
V056	What is Anti-Icing and Anti-Icing for Maintenance Personnel	1-6
V060	Safety Restoration During Snow Removal Guidelines	1-6
V065	Using Snow Plows on Motorgraders	1-6
V070	Iowa Snow & Ice Control	1-7
V077	Snow & Ice Control	1-8
V107	New Generation of Snow and Ice Control	1-11
V129	Good Highway Winter Maintenance/ Risk Management	1-13
V130	The Snowfighters	1-13
V135	Weather and Loads: The Effect They Have on Roads	1-13
V169	Effective Snow Fences	1-16
V170	Plows of the Future	1-16
V172	SHRP Innovations Snow and Ice Control	1-16
V500	Plow Power	2-1
V517	Snow Removal Techniques - Plowing Tips From the Pros	2-2



# Loan/Reproduction Videotapes

The Loan/Reproduction videotapes will be numbered V001-V499. These videotapes have been reviewed for content, technical presentation, and relevance to our audience. Many of these tapes are used for training. An order form is included in the back of this catalog.

The loan/reproduction videotapes have the following guidelines for distribution:

1. The IL T2 Center reproduces copies of these videotapes as requested. We will record one video per blank videotape furnished. Please submit one blank videotape for each tape requested.
2. The IL T2 Center loans these videotapes (maximum of 4) for two weeks during which time these tapes may be copied.
3. The IL T2 Center places electronic video streams on the internet for downloading or web viewing (Windows Media Player is required).

## Videotapes in numerical order:

### **V002 Pothole Patching, Illinois Department of Transportation**

Covers fixing potholes by using a tank/kettle. The video also covers patching by applying emulsions and aggregate in alternate layers until the hole is filled. (30 min)

### **V003 Motorgrader, Nebraska Department of Transportation**

4 Part video that covers the operation of a motorgrader from the operator's point of view. (76 min)

Part 1: Introduction to the Machine ( min)

Part 2: Start-up, Blade positions and Maneuvering the Grader ( min)

Part 3: Operational techniques ( min)

Part 4: Maintaining Unpaved Roads ( min)

### **V004 Loader Operations, Nebraska Department of Transportation**

This video covers the operation of a loader from the operator's point of view. It includes start-up, loader controls, maneuvering, basic operations, and stock piling. (35 min)

### **V005 Trucks, Nebraska Department of Transportation**

This video deals with pre-trip inspection, start-up, basic maneuvering, dump operation and shut down. (53 min)

### **V006 Crack and Joint Sealing, Illinois Department of Transportation**

This video deals with utilizing asphalt emulsions from a kettle to fill cracks. A portion of the video deals with routing cracks and installing backer rod. (47 min)

### **V007 Safe Tree and Brush Removal, Illinois Department of Transportation, 2003**

This video demonstrates chain saw safety and maintenance, sawing techniques, falling trees and trimming brush. (19 min)

### **V008 Commercial Driver's License, Illinois Department of Transportation**

Includes the verbal and driving requirements on the test for obtaining a commercial driver's license. (20 min)

### **V009 Culvert Replacement, Illinois Department of Transportation**

Covers step-by-step procedure for replacing an entrance pipe culvert. (12 min)

- V010 Loading and Towing Heavy Equipment, Illinois Department of Transportation**  
Covers safety features to check on the trailer prior to loading, and discusses how to load the equipment. (20 min)
- V011 Safe Mowing Procedures, Illinois Department of Transportation, 2003**  
Covers IDOT's where, when, and why to mow the right-of-way. It also covers noxious weeds and safety when mowing. (17 min)
- V012 Radio Communication, Your Vital Link, Illinois Department of Transportation**  
Covers the use of mobile radios, the universal "Ten" signals code and guidelines for talking on the radio. (17 min)
- V013 Shoulder Repair and Ditch Cleaning, Illinois Department of Transportation**  
Covers repairing low and high shoulders, and the cleaning of ditches. (15 min)
- V014 Work Zone Safety, Federal Highway Administration**  
4 Part Video that discusses work zone safety. (65 min)  
Part 1: Work Zone Traffic Control ( min)  
Part 2: Traffic Control Devices ( min)  
Part 3: Traffic Control Zones ( min)  
Part 4: Typical Applications ( min)
- V015 The Idea Store, Pennsylvania Department of Transportation, 1989**  
8 part video covering a wide variety of topics. (89 min)  
Part 1: How to store plow blades when not in use, a handy land level, a level for measuring the crown of a road, and other innovative ideas. (8 min)  
Part 2: Includes ideas on identifying construction signs, fire hose cone hold down, traffic control guidebooks, motorgrader blade changing, measuring aggregate lost, innovative tools from Iowa, and a public relations flier on snow removal. (13 min)  
Part 3: Subjects include: two different types of lifter for changing plow blades, the proper way to remove and store locking pin of articulated loader from within the cab, a pamphlet on daily maintenance of motor graders, etc. (10 min)  
Part 4: Subjects include: water runoff on rural roads, slush and ice buildup on snow removal equipment, road resurfacing; minimizing aggregate loss, use of discarded tires, portable road closed sign display. (10 min)  
Part 5: Subjects include: the horrible hard hat, proper tire inflation, safety grams, proper signing, adopt a highway. (11 min)  
Part 6: Roadside wildflowers, effective signs, PA-DOT's Roads Scholar Program, safety promotions, etc. (17 min)  
Part 7: Curb Scraper, dump truck air foil, timber bridge info., better cylinder wrench, and ideas from Delaware/Chester P.W.A. (10 min)  
Part 8: Hard hat medical decals, Montana's maintenance awareness program, welding a fuel tank, mounting a wing plow and development of a wing cart. (10 min)
- V016 Wetted Salt, Dow Chemical**  
Illustrates the added melting power of salt used for snow and ice control if it is pre-wetted with liquid calcium chloride, and the practical concerns for handling and application. (20 min)
- V017 Tire Chip Feature, University of Maine**  
A demonstration of an experiment using tire chips as a road base insulator to protect a highway from frost damage. (5 min)

- V018 Nuts and Bolts of Jolts, Traffic Research Board**  
Traffic signals and eliminating transient voltage is discussed. (23 min)
- V019 Looking Back, John Deere, 1992**  
This is an excellent video illustrating the need for observing safety procedures on work sites when working near construction equipment. (17 min)
- V020 Hydrated Lime - Key to Improved Pavements, National Lime Association**  
The addition of hydrated lime is shown to improve durability and lower costs of asphalt while providing a more permanent bond. (21 min)
- V021 BOMAG: In-Place Recycling**  
1. Detailed in-place recycling shown using Bomag equipment.  
2. Detailed recycling with asphalt emulsions. (28 min)
- V022 Staying Ahead of the Storm, National Research Council - SHRP**  
Discusses weather information and prediction systems for highways. Demonstrates that by utilizing these systems, they will reduce chemical usage, provide less disruption to traffic, and provide for a more efficient maintenance effort. (22 min)
- V023 Equipment Maintenance: Program and Scheduling, Montana State University**  
Presents a practical approach to assuring reasonable maintenance for fleet equipment. Highlights need for continuous equipment checks, maintenance done on schedule, and timely repairs. (46 min)
- V024 Subdivisions: A Local Dilemma, Montana State University**  
Presents examples from Montana's cities and towns to illustrate the basic principles and the reasons for proper planning. (30 min)
- V025 Partial Depth Patching, Illinois Department of Transportation**  
Covers the step-by-step procedure for partial depth patching of a flexible pavement, utilizing bituminous patch material. (18 min)
- V026 Handling Pesticides Safely-Herbicides, Monsanto**  
Discusses the use of herbicides as an effective substitute to mowing and the safe handling of chemicals. Comes with a brochure of how to start a spray program. (21 min)
- V027 Blading Unpaved Roads, Federal Highway Administration**  
Shows techniques to correct various problems associated with gravel roads. (22 min)
- V028 Flagging Operations, Federal Highway Administration**  
Shows proper flagging techniques and required equipment. (33 min)
- V029 Pavement Management System for Local Administrators, Federal Highway Administration**  
This tape describes what a pavement management system is, and why and when to use it. This is not a system development program. (18 min)
- V030 Seal Coating: A Matter of Science & Skill, Minnesota Department of Transportation**  
This tape describes the proper setup and application of seal coating operation. (16 min)
- V031 Subsurface Utility Engineering, 1990**  
This video covers planning for locating underground utilities. (13 min)
- V032 Soil Stabilization: Selecting a Modifier**  
The characteristics and suggested uses of lime, lime with fly ash, cement, and bituminous materials and soil stabilizers. (20 min)

- V033 Backhoe Operation & The Hazards of Hurry, 1993**  
This video covers the basic parts and functions of the backhoe, proper pre-use inspection, various operating techniques, proper shut down procedures, and backhoe safety. (41 min)
- V034 LP Gas: Know the Facts, Federal Highway Administration, 1990**  
Focuses on the proper handling and use of liquefied petroleum gas, proper storage and transportation, leak detection, and inspection. (10 min)
- V036 Highway Signing**  
This is a three part video on highway signing, sign maintenance documentation, and sign management. (41 min)  
Part 1: Highway Signing (41 min)  
Part 2: Sign Maintenance Documentation. (41 min)  
Part 3: Sign Management (41 min)
- V037 A New Way to Lift, National Safety Council**  
Describes a safe and proper procedure for lifting heavy objects helping to minimize back injuries. (8 min)
- V038 Shooting Good Video, Federal Lands Highway Division, 1996**  
This award winning videotape illustrates the proper procedures for making quality video recordings for project documentation or training. (8 min)
- V039 Pneumatic Tire Operation**  
Daily check, start-up and warm-up, basic operation, rolling techniques, and shutdown. (18 min)
- V040 Forklift Operation**  
Reviews forklift operations to include lifting, tilting, and varying the forks' spacing; also covers required daily checks. (21 min)
- V041 Work Zone Safety - Legal Liability, Federal Highway Administration**  
Discusses the legal liability involving work zones. (16 min)
- V042 Setting Speed Limits, Vermont LTAP, 1990**  
Describes background and misconceptions of speed zones and the procedures for determining speed limits on highways and local roads. Components and considerations of a traffic engineering survey are discussed. The adoption of a resolution and the erection of signs for enforcement are also discussed. (10 min)
- V043 Local Government on Trial, Pennsylvania Department of Transportation, 1995**  
2 part video describing the trial process. (107 min)  
Part 1 - The Deposition: Follows a district engineer through the process of giving a deposition. Outlines the purpose of the deposition and provides some advice for giving depositions. Looks at some of the kinds of questions that may be asked. (17 min)  
Part 2 - The Trial: Provides the viewer with a moot civil trial. The trial is based upon a fatal automobile accident on a newly reconstructed section of highway where excessive drop off to the road shoulders was blamed as the cause of the accident by the plaintiff (victim's family). The plaintiff sues the contractor and the township where the road is located. Good video for Local Agency Officials whom may be facing litigation involving a work zone related crash. (90 min)
- V044 Geotextiles Installation on Gravel Roads, Oklahoma State University, 1990**  
Discusses the installation and maintenance of geotextile fabrics on low volume roads. (40 min)

- V045 Problems with Gravel Roads, Federal Highway Administration, 1995**  
3 part video that covers gravel road maintenance. (55 min)  
Part 1: Discusses the importance of considering the environmental conditions and the materials available when planning to rework a gravel road. ( min)  
Part 2: Covers the causes, prevention and correction of problems that occur with gravel roads. ( min)  
Part 3: Shows maintenance equipment and blading techniques. ( min)
- V046 Chip Seal Applications, Federal Highway Administration, 1995**  
3 part video that covers applying chip seals. This is an excellent training or refresher video for those planning a chip seal operation. (40 min)  
Part 1: Shows preliminary concerns, materials, equipment, surface preparation, weather requirements, and application rates for chip seal operations. ( min)  
Part 2: Discusses chip seal procedures, binder application, chip spreading and roller operation. ( min)  
Part 3: Details chip seal problems that can occur and their solutions. ( min)
- V047 Asphalt Paving Inspection, Federal Highway Administration**  
3 part video that covers asphalt paving inspection. (60 min)  
Part 1: Preliminary Responsibilities ( min)  
Part 2: Paving Operation ( min)  
Part 3: Problems ( min)
- V048 Sign Maintenance and Installation, Federal Highway Administration, 1995**  
This video discusses the importance of a good sign maintenance program, proper sign installation, safety practices and record keeping procedures. (27 min)
- V049 Bridge Maintenance for Local Road Crews, Vermont LTAP, 1994**  
This video shows maintenance procedures local road crews can use to keep bridges in good condition. (28 min)
- V050 Professional Tree Care Safety: Equipment Safety, National Arborist Association**  
Safety considerations for use of aerial lifts, stump cutters, tree cranes, chippers and chain saws. How to work with various types of tree care equipment in a manner that reduces injury. Work site traffic control. (28 min)
- V051 Maintenance Welding: Welding Safety & Tank Repair, Michigan LTAP Center, 1994**  
This video covers fire hazards, hazard prevention, extinguishing fires, body and eye protection. The tank repair section explains various non-welding methods of tank repair and the proper procedure for the dangerous task of welding or cutting a tank. (52 min)
- V052 Maintenance Welding: Gas Welding/Metal Identification, Michigan LTAP Center, 1994**  
This video explains the proper maintenance of gas welding equipment (tanks, regulators, hoses, torches) and regular setup. It also demonstrates techniques for cutting various types of metal stock, fusion welding, and brazing. The Metal Identification section demonstrates metal identification using chemicals, flame, or the spark test. (87 min)
- V053 Maintenance Welding: Arc Welding, Michigan LTAP Center, 1994**  
This video explains how an arc welder works (AC and DC), welder setup, and special safety issues (open circuit voltage, ventilation, eye and body protection). It also describes the various electrodes and their uses. (50 min)
- V054 Brush Cutter, Delaware Department of Transportation**  
A brush cutter is used to clear roadsides of brush and excess vegetation. This video covers pre-trip inspection, operating techniques, and shut-down procedures. (13 min)

- V055 Roadway Design: Balancing Safety, Environment, and Cost, Minnesota Department of Transportation, 1995**  
This video focuses on the importance of considering these three factors when constructing or reconstructing a roadway. The objective is to help educate citizens and public officials on issues affecting roadway design, and to demonstrate engineering practices that are useful in achieving this balance. (14 min)
- V056 What is Anti-Icing and Anti-Icing for Maintenance Personnel, Federal Highway Administration, 1996**  
This video explains Anti-Icing Technology, its applications and benefits for highway agencies. Anti-Icing is an additional tool for snow and ice control. (22 min)
- V057 Utility Cut Repair: Doing it Right, Minnesota Local Roads Research Board**  
The objective of this videotape is to increase the quality of workmanship associated with making and repairing utility cuts. The video shows possible causes for failed repairs and procedures used in Minnesota for conducting utility cut repairs. (11 min)
- V058 Driving Modern Roundabouts, Washington State Department of Transportation, 2002**  
This video demonstrates how to safely maneuver through modern roundabouts (10 min)
- V059 Concrete Rubblization and Asphalt Overlay of I-57, Illinois Department of Transportation**  
This informative videotape explains the rubblization process and demonstrates its application on an Interstate Highway project. (20 min)
- V060 Safety Restoration During Snow Removal Guidelines, Federal Highway Administration**  
This video provides guidelines to follow to maintain safe conditions during highway snow removal operations. Snow removal situations on bridges, superelevated curves, along guard rails, and at intersections are examined. (25 min)
- V061 Your Public Image, Texas Department of Transportation**  
This is an excellent video detailing the importance of understanding the public's perception of highway employees and ways to improve our public image. (19 min)
- V062 Stressing Our Future, Iowa Department of Transportation**  
This is a good video showing the stresses put on rural roads by agricultural vehicles. (9 min)
- V063 Preventive Maintenance, Federal Highway Administration, 2000**  
The video provides a better understanding of the various factors, such as existing pavement condition and environmental effects, which must be taken into consideration when selecting the proper pavement for preventive maintenance. The tape also provides a general overview of the various preventive maintenance treatment options available for both rigid and flexible pavements. (30 min)
- V064 Importance of Road Drainage, Federal Highway Administration, 1997**  
The importance of surface and drainage maintenance and the inspection of drainage systems are discussed. Topics also discussed include environmental issues associated with road drainage, federal and state permits and liability for elements of design and maintenance. (19 min)
- V065 Using Snow Plows on Motorgraders, Federal Highway Administration, 1997**  
This video details the correct way to attach snow plows to motorgraders and basic information on using snow plows. Three different types of plows are shown: front single, v plow, and the wing plow (16 min)
- V066 Equipment Management Systems, Federal Highway Administration, 1997**  
Various elements of EMS are discussed including shop management, inventory control, fluid dispensing, and financial control. (18 min)
- V067 Smart Moves, Federal Highway Administration, 1996**  
This video describes intelligent transportation systems and how some local agencies have developed programs to make their transportation systems more user-friendly and efficient. (10 min)

- V068 Stop & Think - A Campaign Against Vandalism, Pierce County, WA**  
This is an excellent video portraying the impact of vandalized traffic signs and controls. The video features two dramatizations depicting safety and liability concerns related to vandalized traffic signs. The costs to taxpayers and an interview with a man involved in taking a stop sign that contributed to a fatal accident are also shown. (11 min)
- V069 Train the Trainer - Turning Field Experts into Expert in the Classroom, North Carolina LTAP Center, 1998**  
This is a good video illustrating teaching techniques to help field experts to become effective instructors and presenters (32 min)
- V070 Iowa Snow & Ice Control, Iowa Department of Transportation, 1998**  
5 part video that covers snow and ice control from Iowa DOT's perspective. (115 min)  
Part 1: Introduction to Winter Operations. This video shows different types of snow and ice removal equipment and explains their uses. (12 min)  
Part 2: Pre-Season Preparation. This video discusses vehicle and equipment checks and maintenance to perform prior to snow and ice season. (30 min)  
Part 3: Equipment Operation. This video discusses pre- and post-storm equipment checks, proper radio procedures and the proper clothing to wear for working outdoors in the winter. (11 min)  
Part 4: Snow Plowing Technique. This is a very good video showing proper plowing techniques on two-lane and divided four-lane highways, around islands and curbed medians, and through intersections. (31 min)  
Part 5: Anti-Icing. This is a technical video explaining brine making, anti-icing and deicing practices, and road weather information systems (RWIS). (31 min)
- V071 Illinois Adopt-a-Highway, IDOT, 2004**  
This video describes the Illinois Adopt-a-Highway program and gives details on what an organization is required to do in order to adopt a highway for clean-up and maintenance. (7 min)
- V072 Meth Lab Waste Recognition for Adopt-a-Highway Volunteers, Colorado Department of Transportation, 2004**  
This video educates Adopt-a-Highway volunteers with the dangers of meth lab waste products that may be encountered during clean up. (8 min)
- V073 Storm Water Management Systems, Tri-County Regional Planning Commission, 2004**  
This video is a brief overview of waste water management; of causes of water pollution; and of ways to avoid water pollution. Also, it describes EPA regulations; NPDES requirements; and program to evaluate and control water pollution. (11 min)
- V074 General Administrative Duties of Highway Commissioners Seminar, Illinois Department of Transportation, 2005**  
This video provides a general overview of the administrative duties of highway commissioners, CDL drug and alcohol testing requirements, and risk management. (65 min)
- V075 Pothole Repair: Proven Practices, Minnesota Local Roads Research Board, 1999**  
This video provides an effective overview of the causes of potholes and repair methods. Guidelines for three repair categories are shown: permanent patching, semi-permanent patching and temporary patching. (14 min)
- V076 Bridge Deck Construction in Illinois, Illinois Department of Transportation, 1999**  
This video provides the viewer with construction techniques to reduce bridge deck cracking caused by improper construction techniques. This is a very good video for construction inspectors, bridge construction personnel, and anyone else who is involved with bridge deck construction. (25 min)

**V077 Snow & Ice Control, Illinois Department of Transportation, 2002**

6 part video that covers snow and ice control from Illinois DOT's perspective. (57 min)

Part 1: Plows & Blades (11 min)

Part 2: Spreaders & Spinners (7 min)

Part 3: Forecasting & Chemical Application (9 min)

Part 4: Pre-Storm Preparation (14 min)

Part 5: Plowing Techniques (13 min)

Part 6: Post-Storm Clean Up (3 min)

**V078 Frost Action in Soils, US Army Corps of Engineers, 1992**

Explains what frost damage is and how freezing temperatures and moisture effects the Subgrade, and how it can damage and deteriorate various materials through thawing and freezing cycles. (11 min)

**V079 Protecting Our Pavement: PREVENTIVE Maintenance, Federal Highway Administration, 1997**

This video provides information on the advantages of preventive maintenance and discusses preventive pavement maintenance, specifically techniques and training, improved planning methods, and dedicated funding. (14 min)

**V080 Sudden Change in Plans, Iowa Department of Transportation**

(8 min)

**V081 Highway Work Zone Safety - Traffic Control, Iowa Department of Transportation, 1997**

This videotape series has been photographed at operating work zones. The viewers will see examples of good safety practices, as well as actual safety hazards and unsafe working conditions. Each videotape in the series has an accompanying instructor's guide. The first 3 part grouping contains information concerning traffic control. (69 min)

Part 1: One Step from Death. This video shows five accident simulations based on typical safety problems found in highway work zones. (11 min)

Part 2: Traffic Control Safety. This video shows how to be safe by following some simple, logical procedures for setting up traffic controls. The program also describes the most common kind of work zone accident - the rear-ender. (11 min)

Part 3: Professional Flagging. Flaggers are responsible for the life-or-death safety of everyone who works near traffic. This videotape covers basic principles, basic procedures, and applications for effective and safe flagging. (47 min)



**V082 Highway Work Zone Safety - Pre-Construction, Iowa Department of Transportation, 1999**

This videotape series has been photographed at operating work zones. The viewers will see examples of good safety practices, as well as actual safety hazards and unsafe working conditions. Each videotape in the series has an accompanying instructor's guide. The second 5 part grouping contains information concerning pre-construction safety. (65 min)

Part 1: Utility Safety in Work Zones. This video shows the above and below ground hazards of telecommunications, electric, gas, water, and sewer utilities; the on-site consequences when they are disrupted; and the off-site consequences to those affected by the disruptions. The video also emphasizes contacting a One Call system (JULIE in Illinois) to help locate underground utility hazards. (14 min)

Part 2: Surveying Safety. This video describes some of the important hazards surveyors face as they work in every phase of construction, from pre-con to post-con, both inside and outside the work zone. (17 min)

Part 3: Loading, Transporting, and Unloading Heavy Equipment. This video shows the special considerations involved with moving equipment too large to be self transported over long distances. Emphasis is on visibility and respect for the size of the equipment. (12 min)

Part 4: Removal/Demolition Safety. This video shows the hazards associated with the demolition and removal of roads, structures, and utilities in preparation for new construction. Emphasis is on personal safety by being knowledgeable about the job, the equipment, and the plan. (11 min)

Part 5: Plant Site Safety. This video covers some of the safety hazards in permanent and portable ACC, PCC, bulk plant, and crushing operations. It shows what to watch out for if you're a pedestrian on the ground, a crane operator, or a truck driver, traveling between the plant and construction sites. (11 min)

**V083 Highway Work Zone Safety - Maintenance and Construction, Iowa Department of Transportation, 1999**

This videotape series has been photographed at operating work zones. The viewers will see examples of good safety practices, as well as actual safety hazards and unsafe working conditions. Each videotape in the series has an accompanying instructor's guide. The last 4 part grouping contains information concerning maintenance and construction safety. (51 min)

Part 1: Moving Operations/ Maintenance Safety. This video describes a variety of short-term highway operations from snow plowing to patching, from the least dangerous to the most dangerous. It emphasizes awareness of hazards and individual responsibility for safety where standard traffic controls are at a minimum. (13 min)

Part 2: Grading Safety. This video covers some of the safety hazards you'll find on typical grading sites, from clearing and grubbing to final grading. Emphasis is on personal responsibility for safety and awareness of the hazards. (14 min)

Part 3: Paving Safety. This video shows some of the hazards of paving with Portland cement concrete (PCC) and asphalt cement concrete (ACC), including night paving operations. Emphasis is on taking personal responsibility for being aware of the changing hazards during paving operations. (11 min)

Part 4: Structures Safety. This video covers some of the typical hazards around the construction of bridges and culverts, with emphasis on falling, falling objects, and crane hazards. (13 min)

**V084 Let's Clean the Air, Chicago Area Transportation Study, 1996**

This video highlights the primary causes of ground level ozone and its effects on our quality of life. It includes steps everyone can take to reduce the emissions that lead to ground level ozone. (10 min)

**V085 Aesthetic Bridge Rails and Guardrails, Federal Highway Administration, 1991**

Alternatives and improvements for aesthetic bridge rails and guardrails. Summarizes the crash testing and special features of concrete bridge rails and guardrails as described in "Summary Report on Aesthetic Bridge Rails and Guardrails" FHWA-SA-91-051. (8 min)

- V086 Concrete Bridge Railings: The Modified Three Beam Guardrails - Cable Guardrails, Federal Highway Administration**  
Covers the AASHTO Design guidelines for bridge railings. Reviews bridge railings tests and designs for all design classifications in accordance with the new AASHTO Guidelines. (14 min)
- V087 Cleaning and Clearing of Bridges, Federal Highway Administration**  
Describes why and how to clean all types of bridges and their components. (13 min)
- V088 Concrete Bridge Deck Repair, Federal Highway Administration**  
Details procedures for permanent repair of partial and full-depth bridge deck holes with cement concrete. Also, proper procedures and proper use of equipment and tools for cutting the concrete, cleaning out the hole. (18 min)
- V089 Bridges Unbroken Inspection of Timber Piling, Federal Highway Administration, 1991**  
This video presents new methods for inspecting timber bridge pilings. (21 min)
- V090 A Gift of Value - Value Engineering, Federal Highway Administration, 1987**  
Presents the six steps of Value Engineering. (9 min)
- V091 Breakaway Timber Utility Poles, Federal Highway Administration, 1989**  
Shows crash test results and actual installation by a utility crew of the breakaway apparatus. (15 min)
- V092 Testing and Field Inspection of Roadway Delineation, Federal Highway Administration, 1992**  
Part 1: Inspection points important to surface markings.  
Part 2: Other types of delineation: signs, object markers. (36 min)
- V093 Traffic Signal Systems-Go For The Green, Federal Highway Administration**  
Part 1: Demonstrates the need for proper traffic signalization and installation.  
Part 2: Describes design, installation, operation and maintenance of state-of-the art signal control. (28 min)
- V094 Pedestrian Safety: What you Can Do, Federal Highway Administration**  
Discusses designing safer pedestrian walkways and the Walk Alert Program. (9 min)
- V095 Common Maintenance Problems/Corrections, Federal Highway Administration, 1985**  
Identifies main causes of most road maintenance problems, discusses importance of doing maintenance tasks correctly. (20 min)
- V096 Caution, Litigation Ahead: The Road to Effective Risk Management, Federal Highway Administration**  
This video explains how planning, organization, and training for safety can reduce tort liability. (25 min)
- V097 Reshaping Earth and Gravel Shoulders, Federal Highway Administration, 1988**  
This video shows the proper procedures for reshaping earth and gravel shoulders to correct shoulder drop-off, rutting, buildup of materials, and excessive weed growth to maintain a safe shoulder. (16 min)
- V098 Base and Sub-base Repair, Federal Highway Administration, 1988**  
This video shows a procedure for repair of base and sub-base that will save money and insure longer-lasting repairs. It covers materials and equipment needed. (16 min)
- V099 Walk, Federal Highway Administration**  
This video explains the importance of and shows how to plan for pedestrian traffic and safety. (13 min)
- V100 Utility Cuts in Paved Roads, Federal Highway Administration, 1995**  
This is a very good video detailing the utility cut operation from the importance of communication among interested parties during the planning stage to finished pavement repair. (41 min)

- V101 Training: The Obscured Advantage, Federal Highway Administration, 1996**  
This is an excellent video detailing the benefits of training for the agency, the supervisors and the work crews. This video is a must see for supervisors. (6 min)
- V102 Diamond Advantage in Highway Grinding, International Grooving and Grinding Association, 1993**  
This video demonstrates the cost and safety benefits of Diamond grinding. (10 min)
- V103 Bituminous Seal Coat, Washington State Department of Transportation**  
Preliminary checks and equipment. Surface preparation and tack coats. Delivery of hot-mix paving, compaction, and final product acceptance. (16 min)
- V104 Bridge Evaluation and Posting, Federal Highway Administration, 1993**  
This is a 5 part video consisting of : Bridge Components and Inspection Standards, Bridge Deficiencies and Deterioration, Forces and Material Properties Affecting Strength, Bridge Posting and Permitting Process, and Bridge Management. This is a very good video for evaluating bridges and explaining the bridge posting process. (38 min)
- V105 Fit To Be Tied: Retrofitting PCC Pavement with Dowel Bars, Dowel Bar Insertion for Load Transfer at Mid Panel Crack, Retrofitted Load Transfer Devices, Federal Highway Administration, 1997**  
This video illustrates cost effective techniques for installing dowel bars in PCC pavements. (52 min)
- V106 Mechanical Cleaning of Unlined Ditches, Federal Highway Administration, 1985**  
This is a very good video illustrating ditch cleaning using a motorgrader and a grade all (backhoe). The tape defines the four principles features of a ditch and their functions. It illustrates set-up, ditch cleaning operations and reestablishing positive drainage. (20 min)
- V107 New Generation of Snow and Ice Control, Federal Highway Administration, 1998**  
This video compares two agencies during snow and ice control. One agency uses conventional snow and ice control methods and the other uses new Road Weather Information Systems and Anti-Icing Technology. The differences in service and costs are compared. (7 min)
- V108 Air Quality Conformity in Transportation, Federal Highway Administration, 1998**  
Describes types of air pollution in general and specifically transportation related air pollutants. Emphasizes compliance with the State Air Pollution Control Plan and how under compliance can impact federal funding for transportation related projects. Good video for urban transportation planners in major metropolitan areas. (20 min)
- V109 FHWA Emergency Relief Program, Federal Highway Administration, 2000**  
Provides step by step procedures to follow in repairing damage to federal aid highways. Discusses eligibility procedures, including Gubernatorial Proclamation. Explains procedures in emergency or permanent repairs. Assessment of damages, eligibility in permanent and or emergency repairs, explains items that are covered by ER funds and items that are not. Explains detailed damage reports, Quick Relief method for catastrophic damage. (41 min)
- V110 Stockpile Recovery to Minimize Segregation, Federal Highway Administration, 1999**  
This video shows how aggregates should be stockpiled to reduce segregation. (8 min)
- V111 Comparable Concepts for Replacement Housing, Federal Highway Administration, 2001**  
This video covers how homes and business' are evaluated when being bought for right of way. Explains how homes are evaluated and compared according to space and value. Also covers other factors such as location factors and assessments. Also covers relocations of business, and what is paid out for relocation and what will be reimbursed to business. (25 min)
- V112 Making the Effort Works: Reducing Utility Delays During Construction, Federal Highway Administration, 2002**  
Showing you how the utility companies and DOT's are working together to ensure fast, efficient, and least expensive work as possible. (19 min)

- V113 Night Lights: How Retroreflectivity Makes Our Roads Safer, Federal Highway Administration, 2002**  
This video explains what is, what materials are used in the construction of signs, and their value to the driver in bad weather, also discusses updating and sign maintenance. (14 min)
- V114 Effective Pavement Preservation by Identifying Distress Conditions, Causes and Cures, Federal Highway Administration, 2002**  
This video provides a brief description of HMA and PCC pavement distresses. It also provides possible cures for each type of distress. (18 min)
- V115 It's About Time.. Traffic Signal Management: Cost Effective Street Capacity, Federal Highway Administration**  
This video discusses traffic movement and ways to improve flow by using existing equipment, or updating equipment to improve traffic flow which may also cure commuting problems such as road rage, traffic accidents and congestion. Timing of traffic lights or lane additions are also options which are also discussed in the video. (13 min)
- V116 Clark Bridge and Price Lock, Illinois Department of Transportation, 1994**  
This video shows the construction of the New Clark Cable Stayed Bridge and the Price Lock and Dam in Alton, IL. (64 min)
- V117 Old Clark Bridge Demolition, Illinois Department of Transportation**  
This video gives the history of the Old Clark Bridge over the Mississippi River at Alton, Illinois from its planning in 1803 to demolition in 1994. (18 min)
- V118 Modified Rock Spreader, Illinois Department of Transportation, 1995**  
Video only. Demonstrates a rock spreader attached to a motorgrader for applying rock to raise shoulder drop offs. (20 min)
- V119 Give 'em a Brake: Highway Work Zone Safety, Illinois Department of Transportation**  
A IDOT presentation of the Give 'em a Brake Program aimed at public audiences. (14 min)
- V120 Kennedy Expressway's Reversible Gate System, Illinois Department of Transportation, 1995**  
Shows the operation of the reversible lane gate system on Chicago's Kennedy Expressway. (3 min)
- V121 Ralumac I-474 Over Illinois River at Peoria, Illinois Department of Transportation**  
This video is a microsurfacing demonstration under the trade name Ralumac over the Illinois River at Peoria, IL. (7 min)
- V122 Half-Smart Project US 36 Douglas County, Illinois Department of Transportation**  
A one lift asphalt application with seal coat under the "Surface Maintenance At the Right Time" guidelines is demonstrated. (8 min)
- V123 Full Containment Bridge Painting, Illinois Department of Transportation**  
A demonstration video on full containment bridge painting. (13 min)
- V124 IDOT Aerial Surveys Section, Illinois Department of Transportation**  
Details the activities of the IDOT Aerial Survey section. (19 min)
- V125 IDOT Bridges to Your Future, Illinois Department of Transportation**  
This tape describes the career opportunities offered at the Illinois DOT and discusses the Co-Op Program. (23 min)
- V126 Paths of Thunder - Safety at Railroad Crossings**  
Discusses safe driving practices and the use of common sense when negotiating railroad crossings. (20 min)

- V127 European Concrete Pavement: Michigan Paves the Way, Michigan Department of Transportation, 1994**  
Michigan follows European techniques of constructing better concrete pavements. (16 min)
- V128 Bituminous Paving Inspection, Michigan Department of Transportation, 1991**  
5 part video that discussed bituminous paving inspection. (151 min)  
Part 1: Overview. Part one focuses on the basic information on bituminous paving and on the specific requirements for the different types of equipment used. (30 min)  
Part 2: Preparations. This part looks at surface repair work and other paving preparations, such as traffic control, joint and crack repair, and bond coat applications. (34 min)  
Part 3: Operations. Paving operations, mix delivery, pavement courses, paving inspections, inspections and other topics are covered in part three. (31 min)  
Part 4: Rolling. This part concentrates on joint construction, compaction requirements, rolling principles and procedures, density control, final surface checks and pavement markings. (31 min)  
Part 5 - Rubblization. This part covers preparations for rubblizing, the materials and equipment used, and the construction steps and related inspection concerns, and the measuring and documentation of the work. (25 min)
- V129 Good Highway Winter Maintenance/ Risk Management, Salt Institute, 1995**  
This video shows the need for a highway winter maintenance program and its relation to risk management. (9 min)
- V130 The Snowfighters, Salt Institute, 1995**  
This video contains updated information on cost vs. benefits of salt as a highway deicer, maintenance and winter preparation, spreader calibration, snowfighting techniques and more. (21 min)
- V131 Making Safer Roads, Insurance Institute, 1995**  
This video explains the importance of roadside safety and how to spot potential roadside hazards before they are involved in an accident. (12 min)
- V132 Accessible Sidewalks: Design Issues for Pedestrians with Disabilities, U.S. Access Board, 2003**  
4 part video that shows ways to accommodate pedestrians with disabilities. (41 min)  
Part 1 - Design Issues for Pedestrians Who Use Wheel Chairs (10 min)  
Part 2 - Design Issues for Pedestrians with Ambulatory Impairments (8 min)  
Part 3 - Design Issues for Pedestrians with Low Vision (12 min)  
Part 4 - Design Issues for Pedestrians Who Are Blind (11 min)
- V133 Road Repair: Do the Right Thing at the Right Time, Minnesota Department of Transportation, 1991**  
How preventive road repair can save money compared to postponing work when it will cost more. (20 min)
- V134 Asphalt Crack Treatment, Minnesota Department of Transportation, 1992**  
Video demonstrated how crack sealing can prolong asphalt pavement life. (15 min)
- V135 Weather and Loads: The Effect They Have on Roads, Minnesota Local Roads Research Board, 1991**  
Provides a basic education in "lay terms" and illustrations on the effects of loads and weather on road pavements. Shows how roads function and wear over time. (17 min)
- V136 Traffic Control: What Works, Minnesota Local Roads Research Board, 1996**  
This video offers information on how public officials develop reasonable, research-based traffic control strategies and choose traffic control devices. It explains why officials should arrive at a systematic and system-wide traffic control policy and should then establish a track record of following that policy. (14 min)

- V139 Chain Saw Selection, Maintenance, Use and Safety, National Arborist Association, 1991**  
2 Part Video. This is a thorough video showing safety aspects of selection, maintenance and operation of a chain saw. (31 min)
- V140 Underground Safety - Trench Shoring, National Safety Council, 1989**  
Reviews several types of shoring and provides rules for their correct use. (10 min)
- V141 New Hampshire Public Works Mutual Aid Program, New Hampshire Public Works, 2002**  
This video explains how local agencies can work together when a disaster strikes. A mutual aid program ensures that public safety is restored quickly and effectively. (12 min)
- V142 Breakaway Sign Program, New Jersey Department of Transportation**  
Overview of the breakaway sign system that was established in the 1970's. Discusses and shows components of the sign supports, assembly and installation details, crash tests, and repair procedures following collision damage. (12 min)
- V143 In-SITU Cold Recycling, New Mexico Department of Transportation**  
Describes cold recycling method used by the New Mexico DOT. (12 min)
- V144 Maintaining Asphalt Roads Blade Patching, New Mexico Department of Transportation**  
Illustrates the process of blade patching. Process involves cleaning and preparing surface to be patched; laying material; lifts; tapers, compaction; and final rolling and clean-up. (55 min)
- V145 Erosion & Sediment Control Procedures and Practices for Construction Sites, Northeastern Illinois Planning Commission, 1993**  
Demonstrates practices and procedures to follow at construction sites to control erosion and sediment. (18 min)
- V146 Coordinated Signal Data Acquisition and Playback System, Ohio Department of Transportation, 1991**  
This video discusses the Coordinated Data Acquisition and Playback System for traffic signals. (28 min)
- V147 Bridge Deck Repair, Oklahoma Department of Transportation, 1981**  
A hole in a concrete bridge deck is repaired from the travel surface by using a form hanger technique. (9 min)
- V148 Fabric Forms for Erosion Control, Oklahoma Department of Transportation, 1980**  
This video shows uses for geotextile fabric forms in erosion control. (15 min)
- V150 Timber Bridge #2, Pennsylvania Department of Transportation**  
Shows how modern timber bridges can be installed by local construction firms or municipal employees at lower cost and in less time than traditional bridge construction. (28 min)
- V151 Hazardous Material: Design, Construction, Maintenance, Pennsylvania Department of Transportation**  
Hazardous materials encountered in different areas of highway construction and how to protect yourself and others. (63 min)
- V152 Surface Treatment, Pennsylvania Department of Transportation**  
A presentation on chip sealing. Includes information on emulsified asphalt properties, proper distributor oil temperature, spray bar height and operation, and rock spreading. (20 min)
- V153 Field Testing Concrete, Washington State Department of Transportation**  
Organized in three parts: preparation, sampling, and testing; slump test and casting cylinders; air content. (34 min)

- V154 Modern Timber Bridges, Rhode Island LTAP**  
This video chronicles the construction of a demonstration timber bridge in Foster, Rhode Island. It also outlines the benefits of building timber bridges. (16 min)
- V155 Bridge Deck Overlays, Strategic Highway Research Program, 1994**  
Explains the bridge deck overlays in four major parts: deck condition, materials, surface preparation and overlay placement. (20 min)
- V156 Concrete Bridge Protection, Repair, and Rehabilitation, Strategic Highway Research Program, 1994**  
Examines existing repair techniques and development of new techniques. New techniques on retaining much existing salt contaminated concrete in place. The product of this research is a field guide. (5 min)
- V157 Finding Better Ways, Strategic Highway Research Program, 1994**  
Description of SHRP's Research in four of the most common maintenance activities: pothole repair, spall repairs, crack sealing, and joint filling and sealing. These activities are presented in terms of extending repair life, speeding up repair time, and reducing motorist delay. (19 min)
- V158 Technical Advancements for Maintenance Workers, Strategic Highway Research Program, 1994**  
Shows SHRP projects aimed at improving maintenance operations. (15 min)
- V159 Asphalt Pavements that Perform, Strategic Highway Research Program, 1994**  
This videotape briefly describes the advanced asphalt pavement technique "SUPERPAVE." This method incorporates: 1)performance based specifications, 2)new test methods, 3)computerized mixed design system. (5 min)
- V160 Alkali-Silica Testing, Strategic Highway Research Program, 1994**  
Discusses Alkali-Silica reactivity (ASR) as a major cause of cracking in concrete. The tape contains the conventional and new methods of determination, prevention and testing of ASR. (21 min)
- V161 Concrete Pavement Overlays, Strategic Highway Research Program, 1994**  
General information and steps for constructing concrete overlay including design consideration, pre-overlay repairs, surface preparation, concrete placement and curing, joint sawing and sealing. (22 min)
- V162 Early Opening of Full Depth Concrete Repair, Strategic Highway Research Program, 1994**  
This tape explains the major considerations of early opening of full-depth concrete repairs. Planning, scheduling and evaluating work was also discussed. (10 min)
- V163 Full Depth Repair of Jointed Concrete Pavements, Strategic Highway Research Program, 1994**  
Five major topics relating to repair of jointed concrete pavement: distress requiring full depth repair, field survey, transverse joint design, materials and repair procedures. (18 min)
- V164 Introduction to Rehabilitation of Highway Concrete, Strategic Highway Research Program, 1994**  
This is the first of a five tape series about rehabilitation of highway concrete. It introduces five activities: partial-depth repairs, full repairs, full slab replacement, concrete overlays on existing pavement and overlaying bridge decks. (11 min)
- V165 Partial Depth Repair of Concrete Pavement, Strategic Highway Research Program, 1994**  
Explains the materials and repair process of partial-depth repair of concrete pavement. (15 min)

- V166 Quality Control of Concrete on Site, Strategic Highway Research Program, 1994**  
4 Part Video. This video deals with Quality Control at the construction site. (59 min)  
Part 1 - Quality Control Tests: Demonstrates sampling, temperature, and slump. (59 min)  
Part 2 - Quality Control Tests: Demonstrates air content, unit weight, cylinders and beams for subsequent tests. (59 min)  
Part 3 Delivered Concrete Quality Control Tests: Demonstrates water content, thermal effects, and evaluation. (59 min)  
Part 4 - Placed Concrete Quality Control Tests: Demonstrates maturity monitoring, temperature matched curing, pulse velocity testing, and nuclear density testing. ( min)
- V167 New Work Zone Safety Devices, Strategic Highway Research Program, 1994**  
This Video program is designed for the safety of workers in work zone areas. It discusses various safety equipment such as Warning Devices, Pothole Speed Bumps, Delineation Devices, Lighting Devices and Signal Flagging Devices. (17 min)
- V168 Freeze-Thaw Testing, Strategic Highway Research Program, 1994**  
Discusses causes and prevention of freezing the concrete pavement in addition to conventional and new testing (25 min)
- V169 Effective Snow Fences, Strategic Highway Research Program, 1994**  
Tells the important procedures to be followed during snow storms in order to provide better and safe movement to traffic. Also shows the proper storage of salt and the role of salt during snow storms. (21 min)
- V170 Plows of the Future, Strategic Highway Research Program, 1994**  
The innovations in snow plow design for better visibility, control and energy savings. (8 min)
- V171 AASHTO 1991 Technology Transfer Fair, Strategic Highway Research Program, 1994**  
This video tape describes research products exhibited at AASHTO'S fair in Milwaukee. Major topics covered include worker safety, snow and ice control, highway maintenance, concrete, and asphalt. (59 min)
- V172 SHRP Innovations Snow and Ice Control, Strategic Highway Research Program, 1994**  
This video provides an overview of SHRP products developed to improve snow and ice control effectiveness and safety. It includes equipment ideas, weather information systems, and snow and ice control materials and methods. (13 min)
- V173 Mailboxes May be Hazardous to Your Health, Texas Department of Transportation**  
Examples of acceptable supports for single and multiple box installations. Crash tests illustrate the dangers of many typical installations (14 min)
- V174 Causes of the Failures of the Failures of the Big Sioux Bridge, United States Department of Transportation**  
This video examines the reasons behind the collapse of the Big Sioux Bridge over the Missouri River in 1962. (33 min)
- V175 Getting Your Message Out: Evaluating Public Awareness of Transportation Issues, United States Department of Transportation, 1998**  
Talks of how our transportation system affects the country. How to create positive public relations, and creating a communications plan for the public. Discusses how to work with the media, and establishing credibility with media. Emphasizes the importance of using credible spokespeople to explain transportation policies. Also covers promoting public service announcements to get messages out with greater success. (19 min)



- V176 Oakwood Bottoms-Take Wing With Us (Shawnee National Forest), United States Forest Service, 1996**  
Oakwood Bottoms is the northernmost bottomland hardwood forest in the Lower Mississippi Alluvial Valley. It is located in the southwest region of the Shawnee National Forest two miles east of the Mississippi River and adjacent to the Big Muddy River. It has been restored to mimic the natural way the area would have evolved if man-made levees had not been constructed to preserve privately owned land. (16 min)
- V177 White Gold, United States Forest Service, 1998**  
This video illustrates a low cost method for fabrication of timber decks over steel girders using methods developed by John Smelen, County Engineer for Ashtabula Co., Ohio. (25 min)
- V178 Prefabricated Timber Bridge Deck Panels, United States Forest Service, 1998**  
This video illustrates a low cost method for fabrication of timber decks over steel girders using methods developed by John Smelen, County Engineer for Ashtabula Co., Ohio. (10 min)
- V179 Earth & Gravel Road Maintenance, United States Forest Service, 2002**  
5 Part Series (84 min)  
Part 1 - Forest Roads and the Environment: This tape provides information on how to keep in mind of the environment when repairing or maintaining environmental or low volume roads. Can be applied to local roads and streets. (18 min)  
Part 2 - Reading the Traveled Way: Explains the different types of problems that occur on the roads and what you can do about them, such as potholes, destroyed road templates, scour, loss of surfacing, damage to bridges, damage to fords, etc. (16 min)  
Part 3 - Reading Beyond the Traveled Way: Informs you how to properly identify problems pertaining to the environmental road and how to safely repair gullies, cracks and slumps, roadside ditch, etc... (17 min)  
Part 4 - Smoothing and Reshaping the Traveled Way: Properly explains how to smooth or reshape crowned, insloped, outsloped, and transition roads while keeping their shape. (17 min)  
Part 5 - Maintaining the Ditch and Surface Cross Drains: Shows you how to maintain ditches and cross drain, as well as shows you how to make water bars and why they are essential to the environmental and local roadways. (16 min)
- V180 Patch PCC with PCC, Utah Department of Transportation**  
Demonstrates the steps involved in patching PCC with PCC. (33 min)
- V181 Evaluation of Longitudinal Joint Sealant, Illinois Department of Transportation, 2003**  
This video demonstrates 2 types of joint sealant that IL DOT's Bureau of Materials & Physical Research (BMPR) evaluated to reduce longitudinal joint degradation. (10 min)
- V182 Detectable Warnings on Walking Surfaces, Stampcrete, 2003**  
This video details manufacturer's recommended construction practices for installing truncated domes to comply with ADA requirements using specialized concrete stamping process. (7 min)
- V183 Recommended Use of Recycled Asphalt Pavement in the Superpave Mix Design Method, North Central Superpave Center, 2004**  
This video outlines RAP usage in superpave mixes. The recommendations are based on NCHRP studies conducted by the North Central Superpave Center. (12 min)

**V184 Meth Labs: California's Hidden Danger, California Department of Justice, 2001**

This video was prepared to introduce individuals to the dangers of Meth Labs by making them aware of what to look for and how they could possibly be harmed by the gases and residue of left over chemicals used in processing methamphetamines. This video also explains how Meth Labs in the local area can be discovered by the ability to identify the waste being dumped. Methamphetamine labs have been found in parks, cars, hotels, and even in picnic baskets. This video will assist emergency personnel in identifying potential dangers when responding to emergency calls. (18 min)

**V185 Flagger Training For Highway Construction, North Carolina Department of Transportation, 2003**

Flagger training for Highway & Construction Employees, newest video for training purposes. (35 min)

**V186 Ice Age: Meth Across America, Multijurisdictional Counterdrug Task Force Training, 2005**

This one-hour training documentary focuses on how the illegal manufacturing, use, abuse and trafficking of methamphetamine wreaked havoc on this quiet county in the Panhandle. Video shows how to identify meth users. (60 min)

# Special Interest Videotapes

The Special Interest videotapes include project and product demonstration videos, promotional videos, and specialty videos. Many of these videos can be used to accompany presentations or speaking engagements. These tapes are for a two week loan only. Many of these tapes are protected by copyright and MAY NOT BE DUPLICATED without specific written permission of the source. The tapes in this section will be numbered 500-999. An order form is included in the back of this catalog.

The Special Interest videotapes are being offered as a way of sharing information on new technologies. This is not an endorsement by the Illinois Department of Transportation or the Technology Transfer Center for the particular products or information presented.

## **Videotapes in numerical order:**

### **V500 Plow Power, American Public Works Association**

This video illustrates safety and snow plowing techniques on city streets, at intersections and in subdivision cul de sacs. (15 min)

### **V501 Flowable Fill, Illinois Ready Mix Concrete Association, 1990**

This video discusses the advantages of using flowable fill as an alternative to conventional backfilling with its main advantage being its ability to support with minimal settlement. (7 min)

### **V502 All American Disk, Doyle, Inc., 1996**

This video shows how the All American disk reclaims gravel and fills in shoulder drop-offs along roadways. (5 min)

### **V503 Hand Signals For Crane Operation, Link-Belt Corporation**

This video illustrates the correct hand signals to use when guiding a crane operator. (11 min)

### **V504 Computer Literacy, Learn PC, 1992**

3 part video that introduces computers to new users. (100 min)

Part 1 - Introduction to PCs (30 min)

Part 2 - The Power of Your Computer (50 min)

Part 3 - Productivity at Your Finger Tips (20 min)

### **V505 Underground Safety: Personal Protection, National Utilities Contractors Association**

This video illustrates personal protection practices to follow when working underground. (10 min)

### **V506 Back To Basics: Back Injury Prevention, Association of General Contractors**

Video shows helpful suggestions to prevent back injury. (15 min)

### **V507 Tool Box Talks: Scaffold Safety, Association of General Contractors**

This video provides safety tips to follow when working on or near scaffolds. (5 min)

### **V508 Avoid Hot Mix Hazards: Working Safely with Hot Mix, Association of General Contractors**

This video shows how to work safely when using hot mix asphalt. (14 min)

### **V509 RULES OF THE GAME: Employee Safety Orientation, Association of General Contractors**

This video is based on building construction safety but can be applied to highway construction and maintenance operations. Some valuable safety information is provided. (12 min)

**V510 SI Metric in the Workplace, Workplace Training**

Part 1: Introduction to SI Metric

Part 2: Units of Measure

Part 3: Reading and Writing Rules

This video set is designed as an introduction to the metric system for engineers and all support staff. The set is accompanied with a participant's workbook developed by the Technology Transfer Center. (20 min)

**V511 Drugs at Work, National Institute on Drug Abuse**

The human and monetary costs and consequences associated with drugs in the workplace. The Drug Free Workplace Program is also discussed. (24 min)

**V512 Hazard Communication, Industrial Training Inc., 1985**

Right to Know information regarding chemicals present in the workplace. Addresses training, labeling, and containing devices (20 min)

**V513 It's Everyone's Concern, Coastal, 2002**

This video examines some security measures that may be encountered in public buildings and discusses why they are necessary. Simple tools are given to ensure the peace of mind that comes with working in a safe and secure public building. (17 min)

**V514 AGC Partnering Program, Association of General Contractors, 1992**

The Owner-Contractor management concepts of Total Quality Management and Partnering are discussed. (12 min)

**V515 Traffic Control Series, International Road Federation, 1994**

5 part video that covers traffic control on a global basis (104 min)

Part 1: Markings and Islands.

This video follows MUTCD guidelines on the design and application of markings and islands. (19 min)

Part 2: Traffic Controls for Schools, Railroad Crossings, and Bicycle Facilities.

This video follows MUTCD traffic controls for three traffic control conditions requiring extra safety considerations: schools, railroad crossings, and bicycle facilities. (24 min)

Part 3: Traffic Control Signals at Intersection.

This is a basic introduction to how engineers determine if a signal is needed and the basic principles of signal controller phasing and traffic signal timing. Intersection studies are briefly described, and types of warrants for signalization are given. Signal equipment is also shown. (18 min)

Part 4: Traffic Sign Inspection and Maintenance.

This video shows the importance of sign inspection, inventory and maintenance procedures. (21 min)

Part 5: Traffic Sign Placement and Location. This video covers the placement and location of signs in general and specifically at their placement and location in three areas: urban, rural, and freeways. (22 min)

**V516 Jobsite Safety Series, International Road Federation, 1994**

2 part video that cover jobsite safety on a global basis (45 min)

Part 1: Developing Jobsite Traffic Control Plans.

This video follows the development of an effective traffic control plan from the preplanning process, through the design and writing, the implementation, evaluation and even revision. (21 min)

Part 2: Installation, Inspection, and Maintenance of Work Site Traffic Control Devices.

This video shows types of traffic control devices, their installation and inspection at a basic worksite based on a traffic control plan. (24 min)

**V517 Snow Removal Techniques - Plowing Tips From the Pros, Vista Videos**

This video provides excellent tips for snow plow operators to help them do a better job. This tape can be used as a training video for new operators and can give new information to experienced operators. (23 min)

- V518 Right Before Your Eyes, ATSSA, 1993**  
General presentation on the need for good pavement markings. (10 min)
- V519 Super Bridge, PBS - NOVA, 1997**  
This video takes a look at the construction of the (cable stayed) Clark Bridge spanning the Mississippi River at Alton, IL. Excellent video. (120 min)
- V520 Why So Many Questions?, JULIE, 1997**  
This video explains Illinois law regarding JULIE notification, the proper procedures to follow and location information needed. (24 min)
- V521 On Solid Ground, Association of General Contractors**  
Describes the importance of trench shoring and safety steps. (18 min)
- V522 Principles of the Asphalt Paver, Barber-Greene, 1992**  
This video illustrates the operation of the Barber-Greene asphalt paver to produce a quality paving surface. (18 min)
- V523 Discovering the Internet, Learn PC, 1995**  
This video explains how the Internet works. Topics include the Internet and the World Wide Web, on-line services, Internet providers, web browsers, web pages, using email, and performing searches on the web. (60 min)
- V524 Cutler Repaving History, Culter**  
The Cutler Repaver is demonstrated (10 min)
- V525 How to Prevent Segregation, Video University Productions, 1992**  
What causes segregation in asphalt mixes and how to prevent it. (26 min)
- V527 Road Oyl: Resin Modified Emulsion, Road Products Corporation, 1993**  
Road Oyl is a non-water soluble, high bonding strength emulsion developed for use in pavement applications, dust control and erosion control. (25 min)
- V528 Building the Notched Wedge Joint, National Asphalt Pavement Association, 1998**  
This video provides the viewer with the construction technique utilized to create the "Notched Wedge Joint" and its reported benefits including: enhanced pavement life and increased safety. This is a good video for design engineers, inspectors, and asphalt paving personnel. (8 min)
- V529 Cold In-Place Recycling, ARRA**  
Describes the cold in-place recycling process, core sample testing, design recycling content procedures, and advantages and disadvantages. (40 min)
- V530 Full Depth Reclamation, ARRA, 1992**  
Covers the applications and uses of full depth reclamation. Fully describes the short-term and long-term benefits. (12 min)
- V531 Hot In-Place Recycling, ARRA, 1991**  
Video describes how hot in-place recycling can extend the existing asphalt life at half the cost of conventional recycling while protecting the environment. (7 min)
- V533 Principles in Quality Concrete, PCA**  
Discusses all phases of achieving high strength concrete, for selection of materials to placement and curing. (36 min)

**V534 Construction Trenching and Shoring: Hard Hat Series, Coastal, 2002**

OSHA estimates that approximately 90 deaths occur every year because someone didn't know basic trenching and shoring safety guidelines. The practical safeguards covered here can help prevent these needless casualties. Topics include: Evaluating an excavation site, Effective worker protection systems, and Emergency response. (10 min)

**V535 Defensive Driving for Government Employees, Coastal, 2002**

This new video program looks at techniques to help prevent accidents from happening, and in the case of unavoidable accidents, help lessen their severity. Topics include: What Is Defensive Driving?; Respect for the Vehicle; Your Responsibility as a Driver; Proper/Safe Driving Techniques; Seat Belts; Driving in Poor Weather; Speeding, Right-of-way, Passing, Tailgating; and Distractions & Road Rage. (19 min)

**V536 PPE: Don't Start Work Without It (Safety 101), Coastal, 2002**

Learn to use the right equipment for each job, and use it correctly. Topics include: Eye and Face Protection; Hearing Protection; Hand & Foot Protection; Basic PPE Rules. (15 min)

**V537 Construction Lockout/Tagout, Coastal, 2003**

Preventing unexpected start-ups of equipment during servicing and maintenance is as easy as the six-step safety procedure summarized in this video program. Topics include: How Lockout/Tagout Systems Work; When to Use Lockout/Tagout Procedures; Six Steps Required in Lockout/Tagout Process. (10 min)

**V538 Construction Confined Space Entry, Coastal, 2002**

Working safely in a confined space requires learning the necessary skills to prevent or escape dangerous, or even fatal accidents. Preparation begins with this overview: Identifying Confined Spaces & Their Hazards; OSHA's Confined Entry Permit Program; Duties of Confined Space Entry Team. (10 min)

**V539 Flagging: You're the Director, Coastal, 2002**

The job of the flagger is crucial for preventing highway work zone accidents. However, Flaggers are often not properly trained or not trained at all. This valuable video program reviews vital flagging procedures including: Flagger Requirements; Proper Clothing & Equipment; Flagger Position; and Stopping & Releasing Traffic. (18 min)

**V540 Highway Work Zone Safety: The Basics, Coastal, 2002**

This video program will help your employees understand and comply with MUTCD and learn what it takes to keep themselves, drivers, and pedestrians safe. Topics include: Being Safety Conscious; Traffic Control Devices; Slowing Down Traffic; Detours & Closures; and Communication. (18 min)

**V541 Heat Stress, Coastal, 2003**

This video program focuses on preventing illnesses and minimizing safety hazards. Complies with NIOSH and OSHA recommendations. Topics include: Hazards of Hot Environments and First Aid. (16 min)

**V542 Construction Fall Protection: Get Arrested!, Coastal, 2002**

This new program will help your employees work safer and smarter. It will also train employees on what's new, what's in and what's out, as far as fall arrest equipment and safety procedures go. Topics include: Requirements for Guardrail Construction, Strength, & Minimum Height Standards; Proper Anchorage Techniques; When & How to Use Lifelines & Positioning Devices. (11 min)

**V543 Winter Safety, Coastal, 2002**

Freezing temperatures and icy roads. They're not only uncomfortable - they can be deadly. Either on the job or during recreational time, winter weather can pose special dangers to everyone. Topics include: Signs & Treatment of Hypothermia & Frostbite; Prevention of Hypothermia & Frostbite; and Off the Job Winter Safety. (14 min)

**V544 Road Rage, Safety Shorts, 1998**

Explains Road Rage and its causes from aggressive drivers to rude drivers. Various ways of Stress management and ways to avoid confrontations with rude operators. (6 min)

- V545 Quick-change Movable Barrier, Barrier Systems Inc, 2002**  
Part 1: This video shows the general operation and discusses the advantages of the Quick-change system.  
Part 2: The system is demonstrated on the Texas I-30 Contraflow HOV Lane. (18 min)
- V546 Stabilization for Low Volume Roads, American Road & Transportation Builders Association**  
Six steps to soil stabilization for unpaved roads or as a base under pavement. (11 min)
- V547 Trenching and Shoring: The "Hole" Story, Safety and Training Services, 1998**  
Review of OSHA's trenching requirements for cave-in prevention and worker safety. (13 min)
- V548 NAPA Paving Practices for Quality, National Asphalt Pavement Association, 2001**  
This video reviews safety practices pertaining to Hot Mix Applications in three stages including paver operations and roller operations. Covers different tasks performed by Laborers and tips on proper paving techniques.  
  
\*NOTE: Spanish version is also on this tape. (30 min)
- V549 Back Safety: Lift Well, Live Well, Coastal, 2001**  
This video will show you how you can "head off back pain" when you use your head and remember to protect your back from stress. (14 min)
- V550 AEMA Paving the Way...to the 21st Century, AEMA, 1995**  
This video covers the applications and benefits of using asphalt emulsions. (11 min)
- V551 What's Hot Mix Asphalt, National Asphalt Pavement Association, 1993**  
This video explains what hot mix asphalt is and its uses. (12 min)
- V552 Ultra-Thin Whitetopping: Today's Choice for Durable Pavement Overlays, American Concrete Pavement Association**  
This video shows an alternative to HMA for overlays. It provides benefits and a brief over view of the Ultra-Thin Whitetopping process. (8 min)
- V553 Chainsaw Sharpening, Forest Products Accident Prevention Association**  
This video shows that proper chain saw sharpening increases safety as well as efficiency. (7 min)
- V554 In Place Concrete Recycling System, Paradigm Equipment Company, 1993**  
This videotape explains the Paradigm in place concrete recycling process and its benefits. (9 min)
- V555 Safe and Secure, Coastal, 2001**  
Coastal's "HazMat: Safe And Secure" video examines the types of threats that exist for facilities that manufacture, store, use or transport hazardous materials. It covers the details of a Security Vulnerability Analysis, as well as tips to make your facility safer and more secure. (24 min)
- V556 Qualification Based Selection (Contractor Selection), Consulting Engineers Council of Illinois**  
This video explains the qualification-based selection process and how it is used for professional or public projects. Explains selection process and how to evaluate and rank different firms for your project. Selection of Qualified Engineers-Architect for projects and avoiding low bid catastrophes. (15 min)
- V557 Crisis Under Control, Coastal, 2000**  
OSHA's 1910.38 requires that each company develop a workable Emergency Action Plan. With the new threats facing our society today, such a plan is required not only for compliance, but also for survival. Make sure your organization has a well thought out plan in place by following the guidelines provided in this program. (16 min)

- V558**    **Understanding Superpave Mix Design, National Asphalt Pavement Association, 2000**  
Produced in cooperation with the FHWA, this video explains the basics of Superpave material selection, laboratory compaction, and the required mix evaluation processes. This video is based on the national recommendations; however, IL DOT has made minor changes to the national recommendations. (13 min)
- V559**    **Sensible Wood Cutting: Tips from the Pros, Husqvarna Forest & Garden, 2003**  
This video provides some basic tips and techniques that can make your cutting experience safer and more productive. It covers: Personal Protective Gear, Safety Features of Husqvarna Chain Saws, Making a Cutting Plan, and Various Felling Techniques. (25 min)
- V560**    **On Again Off Again: A Guide to Mounting and Dismounting Heavy Equipment, Public Entity Risk Institute, 2003**  
This video describes accident and safety steps that are abused routinely by Experienced operators. What injuries can cost companies, the three points of contact. How to complete a walk around inspection, and common checks that will help avoid falls as well as injuries to operators. (18 min)
- V561**    **Highway Safety Improvement Program - Traffic Safety, International Road Federation, 1995**  
This videotape contains information on identifying highway safety problems and solutions, evaluating and selecting the best safety alternatives, and evaluating safety program results. (58 min)
- V562**    **Highway Safety Improvement - Equipment Management Systems Series, International Road Federation, 1996**  
This video provides an introduction to EMS and discusses keeping a record of equipment inventory, equipment maintenance, parts and supplies management, financial management, equipment management information sub-systems and EMS implementation. (60 min)
- V563**    **Pavement Management Systems (PMS), International Road Federation, 1996**  
4 Part Video. This video provides an overview of pavement management systems, PMS Data Collection/Management, and Developing and Implementing Pavement Management Systems. (67 min)
- V564**    **Maintenance Management Systems (MMS), International Road Federation, 1996**  
5 Part Video. This video provides an overview of maintenance management systems and information on developing maintenance standards, the MMS work planning process, MMS work authorization and scheduling, and MMS work reporting and evaluation. (100 min)
- V565**    **Backhoe Safety, Zomar Productions Inc.**  
Focusing on tractor-loader backhoes and written in cooperation with over twenty experienced operators, this program is filled with real world tips and advice on safe backhoe operation. (18 min)
- V566**    **Confined Spaces, Zomar Productions Inc**  
This video shows confined & enclosed space entries, emphasizing underground vault entries. Opening with a worker collapsing in a hazardous atmosphere, the program uses plain English to show students how and where the hazards in confined & enclosed space entries come from. (26 min)



# Publication Library

The Publication Library offers renewable source publications and limited copy SHRP and FHWA publications. All are provided free of charge. The publications available are:

## Renewable Publications

**P000 Illinois Technology Transfer's Videotape/Publication Catalog, Illinois Department of Transportation, Bureau of Local Roads, 2004**

This catalog contains a complete listing of videotapes and publications in the library. (58 pages)

**P001 Work Area Protection Guide, Illinois Department of Transportation, Bureau of Operations, 1997**

This manual by IDOT offers guidance for traffic control maintenance operations and provides MUTCD (part 6) traffic control layouts for different types of encroachments onto the pavement. (83 pages)

**P002 Ten Signal List, Illinois State Police**

A list of the "10" code radio signals. (1 pages)

**P003 Flaggers Handbook, Illinois Department of Transportation, Bureau of Local Roads, 2003**

A "how to" booklet for flaggers. (21 pages)

**P004 Illinois Highway Design Standards for Traffic Control, Illinois Department of Transportation, Bureau of Operations, 2003**

IDOT's current traffic control standards, includes the 5 urban cases. (47 pages)

**P005 Work Zone Traffic Control, Illinois Department of Transportation, Bureau of Operations, 2002**

This booklet contains excerpts from the IDOT Spec. book and the Supplemental Specifications and Recurring Special Provisions regarding work zone traffic control.

Note: Interim Special Provisions are not included in this booklet. (60 pages)

**P006 Quality Standard for Work Zone Traffic Control Devices, Illinois Department of Transportation, Bureau of Operations, 1998**

This booklet is a visual identification system to identify acceptable, marginal, and unacceptable signs, panels, drums and cones. (17 pages)

**P007 Maintenance of Signs and Sign Supports for Local Roads & Streets, Federal Highway Administration, 2000**

Publication FHWA-RT-00-00

A guide for street and maintenance personnel. Covers repairs and replacement of sign panels and supports, and the materials and equipment to do this. (55 pages)

**P008 Rating Unsurfaced Roads, US Army Corps of Engineers, 1988**

A field manual for measuring maintenance problems. Covers dividing your road network into branches and sections, inspecting unsurfaced roads, and calculating ratings. (35 pages)

**P009 Pothole Primer, US Army Corps of Engineers, 1989**

A public administrators guide to understanding and managing the pothole problem. Covers identifying and cataloging causes of why potholes form and discusses how to resolve problems. Discusses patching procedures for all types of potholes. (28 pages)

**P010 Local Low Volume Roads and Streets, Federal Highway Administration, 1992**

Publication FHWA-SA-93-006

Provides local agencies with basic information concerning local low volume roads and streets (usually less than 500 vehicles daily). It is easy to use and specific topics are quickly located. (160 pages)

**P011 Writing the Metric Way, Illinois Department of Transportation, Bureau of Local Roads, 1994**

This training workbook provides anyone who writes, transcribes or types metrics, a working knowledge of the metric units, their proper usage and the editorial rules for using the metric (SI) system. This booklet is intended as a metric reference guide and not the sole authority for the complete metric system. (24 pages)

- P012**    **Safe Winter Driving on Illinois Roadways, Illinois Department of Transportation, Bureau of Local Roads, 1995**  
Safety tips for winter driving and how not to hinder the operation of the snowplow. (2 pages)
- P013**    **Manual of Practice for an Effective Anti-icing Program: A Guide for Highway Winter Maintenance Personnel, Federal Highway Administration, 1996**  
Publication FHWA-RD-95-202  
This manual provides information for successful implementation of an effective highway anti-icing program. It is written to guide the maintenance manager in developing a systematic and efficient practice for maintaining roads in the best conditions possible during a winter storm. It describes the significant factors that should be understood and must be addressed in an anti-icing program, with the recognition that the development of the program must be based on the specific needs of the site or region within its reach. The manual includes recommendations for anti-icing practices and guidance for conducting anti-icing operations during specific precipitation and weather events. (70 pages)
- P014**    **Tailgate Talks, Illinois Department of Transportation, Bureau of Operations, 1993**  
This book is a safety guide covering a variety of work and work related situations. It can be used by supervisors as a training manual or as a safety guide for work crews. Topics include accident and injury prevention situations, driving skills, electricity, emergencies, fire prevention, first aid, equipment, housekeeping, tools of the trade, work in the woods, hand and power tools, real-life accidents, personal care, office and off the job safety, on the job safety, and others. (300 pages)
- P015**    **Handbook on Successful Supervision for Local Road Supervisors, Federal Highway Administration, 1990**  
Publication FHWA-RT-91-002  
This handbook is valuable source of information for supervisors and managers. It contains chapters on managing, motivating and communicating. This guide includes information on delegating, training, problem solving, developing teamwork, public relations and several other important supervisory activities. (130 pages)
- P016**    **Concrete - PASER Manual, University of Wisconsin-Madison, 1989**  
This manual will help people in local agencies use the PASER system to evaluate concrete pavement surface condition. They can use techniques alone to manage pavements, or incorporate them into a more comprehensive management system. (48 pages)
- P017**    **Asphalt - PASER Manual, University of Wisconsin-Madison, 1989**  
This bulletin will help people in local agencies use the PASER system to evaluate asphalt pavement surface condition. They can use techniques alone to manage pavements, or incorporate them into a more comprehensive management system. (40 pages)
- P018**    **General Administrative Duties of the Township Highway Commissioner, Illinois Department of Transportation, Bureau of Local Roads, 2001**  
This manual was prepared for use in General Administrative Duties of the Township Highway Commissioner's Seminar. The 2001 manual has undergone extensive revisions and was prepared through cooperative efforts of the Illinois Association of County Engineers, the Township Officials of Illinois, the Illinois Department of Commerce and Community Affairs and the Illinois Department of Transportation Bureau of Local Roads and Streets' Technology Transfer Center. (82 pages)
- P019**    **Dust Control, Federal Highway Administration, 1999**  
Two Part Publication  
  
Part 1, Dust Palliative Selection and Application Guide, November 1999. Helps practitioners understand and correctly choose and apply the dust palliative that is appropriate for their particular site, traffic conditions and climate.  
  
Part 2, Dust Control on Low Volume Roads: A Review of Techniques and Chemicals Used, May 2001. Intended to serve as a practical dust control guide for low volume roads. (80 pages)

- P020**    **Pocket Guide: GASB 34 Phase III Local Government, Ohio Local Technology Assistance Program, 2003**  
This guide provides a brief overview on GASB-34 requirements. (10 pages)
- P021**    **Extended Life Continuously Reinforced Concrete Pavement, Illinois Department of Transportation, D5, 2003**  
Summary of I-70 reconstruction project using new PCC extended life design. (10 pages)
- P022**    **Gravel - PASER Manual, University of Wisconsin-Madison, 1992**  
This bulletin will help people in local agencies use the PASER system to evaluate gravel pavement surface condition. They can use techniques alone to manage pavements, or incorporate them into a more comprehensive management system. (32 pages)
- P023**    **Work Site Protection Manual: Operation Activities and Emergency Callouts, Illinois Department of Transportation, Bureau of Operations, 2002**  
This booklet was prepared for employees of the Illinois Department of Transportation only. This is the Department's policy for the proper application of traffic control devices for all operations work, except for snow and ice control and emergency traffic patrol. These cases establish the minimum requirements. If additional devices are needed to enhance safety, they should be added when necessary. (116 pages)
- P024**    **Work Site Protection Manual: Other than Highway Maintenance and Traffic Crews, Illinois Department of Transportation, Bureau of Operations, 2001**  
This booklet was prepared for employees of the Illinois Department of Transportation only. This is the Department's policy for the proper application of traffic control devices for all IDOT employees working on or near open traffic lanes. These cases establish the minimum requirements. If additional devices are needed to enhance safety, they should be added when necessary. (143 pages)
- P025**    **Implementing Bicycle Improvements at the Local Level, Federal Highway Administration, 1998**  
Publication FHWA-98-105  
The purpose of this document is to provide detailed information on how to implement some of the most useful and popular bicycling components intended to increase the levels and safety of bicycle use within the affected communities. The advice contained herein will be most useful for those at the local - typically below the Metropolitan Planning Organization (MPO) - level working to implement the MPO long-range plans. (106 pages)
- P026**    **Specifications & Special Provisions: Development and Usage for Local Agencies., Illinois Department of Transportation, Bureau of Local Roads, 2001**  
This pamphlet was prepared to provide local agencies and consultants with a quick reference to the development and use of specifications and special provisions. It is intended that the provisions of this pamphlet be a reference and not the final authority (13 pages)
- P027**    **Highway - Rail Grade Crossing Safety & Enforcement Manual, Illinois Commerce Commission, 2003**  
This booklet seeks to assist law enforcement officers and other first responders to safely investigate crashes, deaths, and injuries at highway - rail grade crossings and on railroad rights-of-way. (27 pages)
- P028**    **Superpave Fundamentals Reference Manual, National Highway Institute, 2000**  
This publication gives a general overview of superpave concepts and was developed for use in NHI Course Number 131053. (157 pages)
- P029**    **The Illinois Grade Crossing Protection Fund, Illinois Department of Transportation, Bureau of Local Roads, 1992**  
This publication gives an overview of the use, operation, and administration of the IL grade crossing protection fund. (25 pages)
- P030**    **Signing of Road District and Township Highways, Illinois Department of Transportation, Bureau of Local Roads, 1997**  
This booklet is to furnish guidance to the Highway Commissioner regarding signs and their uses and traffic control devices. Any reference to the "Manual" is to the "Manual on Uniform Traffic Control Devices" or the "Illinois Supplement to the National Manual on Uniform Traffic Control Devices". (49 pages)

- P031 Motor Fuel Tax Funds: Source, Distribution, & Uses for Counties, Illinois Department of Transportation, Bureau of Local Roads, 2001**  
This pamphlet was prepared to provide local agency's officials with a quick reference to the source, distribution and uses of Motor Fuel Tax funds. It is the intent that the provisions of this document be a reference and not the final authority on the receipt or expenditure of Motor Fuel Tax funds. (8 pages)
- P032 Motor Fuel Tax Funds: Source, Distribution, & Uses for Municipalities, Illinois Department of Transportation, Bureau of Local Roads, 2001**  
This pamphlet was prepared to provide local agency's officials with a quick reference to the source, distribution and uses of Motor Fuel Tax funds. It is the intent that the provisions of this document be a reference and not the final authority on the receipt or expenditure of Motor Fuel Tax funds. (8 pages)
- P033 Motor Fuel Tax Funds: Source, Distribution, & Uses for Road Districts, Illinois Department of Transportation, Bureau of Local Roads, 2001**  
This pamphlet was prepared to provide local agency's officials with a quick reference to the source, distribution and uses of Motor Fuel Tax funds. It is the intent that the provisions of this document be a reference and not the final authority on the receipt or expenditure of Motor Fuel Tax funds. (8 pages)
- P034 Jurisdictional Transfer Guidelines for Highway and Street Systems, Illinois Department of Transportation, Bureau of Local Roads, 1993**  
This pamphlet provides an overview of the jurisdictional transfer process. (36 pages)
- P035 Response Handbook for Incidents, Disasters, and Emergencies (R.H.I.D.E.), Illinois Department of Transportation, Bureau of Operations, 2004**  
This manual is intended to provide critical information, which is found throughout IDOT plans and manuals. R.H.I.D.E. is intended to supplement and augment existing emergency plans, policies, and procedures. Specific attention is given to "immediate actions" and enabling IDOT personnel to react to the situation as it occurs. Your personal safety is of primary concern when evaluating and taking action. (41 pages)
- P036 Detectable Warnings: Synthesis of U.S. and International Practice, United States Access Board, 2000**  
This publication summarizes the state-of-the-art regarding the design, installation, and effectiveness of detectable warning surfaces used in the U.S. and abroad. It will be helpful to transportation engineers, planners, and other interested persons working to make public rights-of-way more accessible to people who have visual impairments. (150 pages)
- P037 Working with Positive Protection, Illinois Department of Transportation, 2004**  
This brochure is intended to inform workers of the nature of positive protection in highway work zones, to note the limitations of positive protection, and to let workers know what they can do to maximize safety when working in areas separated from traffic by positive protection. (2 pages)
- P038 Selecting a Preventive Maintenance Treatment for Flexible Pavements, Foundation for Pavement Preservation (FPP), 2000**  
This report specifically addresses flexible pavement preventive maintenance, including the types of pavements that are candidates for preventive maintenance, the available treatments, where and when they should be used, their cost effectiveness, the factors to be considered in selecting the appropriate treatment strategy, and a methodology to determine the most effective treatment for a particular pavement. (83 pages)
- P039 Accessible Public Rights-of-Way Design Guide, U.S. Architectural and Transportation Barriers Compliance Board, 2001**  
This design guide was developed by the U.S. Architectural and Transportation Barriers Compliance Board (the Access Board) in collaboration with the U.S. Department of Transportation (DOT)/Federal Highway Administration (FHWA) to assist public works and transportation agencies covered by title II of the Americans with Disabilities Act (ADA) in designing and constructing public sidewalks and street crossings. The recommendations in this publication may also be applied to shared-use paths that occupy a public right-of-way. State and local transportation engineers, planners, landscape architects, civil engineers, and others who design pedestrian facilities will also find useful guidance here for improving existing public pedestrian circulation networks to be more usable by pedestrians who have disabilities. (148 pages)

**P040 Handbook of Simplified Practice for Traffic Studies, Iowa State University, 2002**

This handbook describes simplified traffic study procedures that are easy to apply and are written for all potential users (civil engineers and traffic engineers, public works managers, city managers and attorneys, and the general public). (170 pages)

**P041 Asphalt Seal Coats, Washington State Department of Transportation, 2003**

This publication explains the different types of seal coats and provides an overview of construction methods. (30 pages)

**P042 Context Sensitive Solutions: Report to the Illinois Governor and General Assembly, Illinois Department of Transportation, 2004**

There are three purposes to this report, corresponding to its three parts. The first is to provide the Governor and Legislature with a description of IDOT's research and development of CSS policy. The second is to set out guidelines for design flexibility and stakeholder involvement which IDOT practitioners can use to achieve transportation excellence. Third, IDOT outlines the further work IDOT must do to expand upon and develop good Context Sensitive Solutions policies and practices. (12 pages)

**P043 Illinois Supplement to the National Manual on Uniform Traffic Control Devices, Illinois Department of Transportation, 2004**

The 2003 edition of the Illinois Manual on Uniform Traffic Control Devices (IMUTCD) consists of the December 2003 of the national Manual on Uniform Traffic Control Devices (MUTCD), including subsequent official revisions thereto, as amended by this Illinois Supplement to the MUTCD. The MUTCD is available on-line at <http://mutcd.fhwa.dot.gov>. (28 pages)

**P044 IS-700 National Incident Management System Self Study Guide, Federal Emergency Management Agency, 2004**

This guide will assist students in completing the National Incident Management System (NIMS) introductory training. The training is available online at [www.training.fema.gov/emiweb/is/is700.asp](http://www.training.fema.gov/emiweb/is/is700.asp) and should be completed by all local agency personnel that may respond to an incident. (80 pages)

**P045 Roadway Signing Final Report, Federal Highway Administration, 2005**

The purpose of this review was to examine the current state-of-the-practice in the area of sign maintenance on the rural local road system.

The review consisted of an evaluation of current procedures being followed for sign maintenance of township roads, rural county roads, and local streets in communities with populations under 5,000. The team used the threshold of under 5,000 population for three basic reasons: 1) State Transportation Program - Urban funds are available to municipalities over 5,000 in population; 2) Municipalities over 5,000 are considered urban areas; and 3) Municipalities with less than 5,000 don't generally have public works departments. (96 pages)

## **Other Publications Available in Limited Supply:**

- L001 Specifications for Chip Seal, Slurry Seals and Crack Sealing, Strategic Highway Research Program, 1992**  
Publication SHRP-H-322  
Volume 1 contains North Central Region (which includes Illinois) special contract requirements that amend and supplement the Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects with regard to rating the application of pavement maintenance (chip seals, slurry seals, and crack sealing) treatments. (65 Pages)
- Volume 2 contains rating tree procedure for rating chip seals and crack sealing methods. (183 Pages) ( pages)
- L002 Snow Fence Guide, Strategic Highway Research Program, 1991**  
Publication SHRP-H-320  
This guide contains everything maintenance personnel need to know in order to design and locate snow fences correctly. A 21-minute video, "Effective Snow Fences," supplements this guide. (61 pages)
- L003 Materials and Procedures for Repair of Potholes in Asphalt-Surfaced Pavements, Federal Highway Administration, 2001**  
Publication FHWA-RD-99-168  
This Manual of Practice is an updated version of the 1993 SHRP Pothole Repair Manual. It contains the latest information pertaining to the types and performance characteristics of repair materials and methods, as well as, the proper ways of planning, designing, constructing, and monitoring the performance of pothole repair projects. It also details how the cost effectiveness of pothole patch types can be determined and it provides a updated partial listing of material and equipment manufacturers. (73 pages)
- L004 Materials and Procedures for Repair of Joint Seals in Portland Cement Concrete Pavements, Federal Highway Administration, 2001**  
Publication FHWA-RD-99-146  
This Manual of Practice is an updated version of the 1993 SHRP Joint Seal Repair Manual. It contains the latest information pertaining to the performance of sealants and resealing methods, the availability and relative costs of sealant materials, and the proper ways of planning, designing, constructing, and monitoring the performance of joint resealing projects. It also provides an updated partial listing of material and equipment manufacturers. (112 pages)
- L005 Innovative Materials Development & Testing: Pothole Repair, Strategic Highway Research Program, 1993**  
Publication SHRP-H-353  
This report presents a summary of all aspects of the pothole repair experiment, including test site installation, material testing, field performance, and data analysis, in an effort to determine the optimum combination of materials and procedures for improving cost effectiveness of patching operations. (223 pages)
- L006 Distress Identification Manual for the Long Term Pavement Performance Project, Federal Highway Administration, 2003**  
Publication FHWA-RD-03-031  
Accurate, consistent, and repeatable distress evaluation surveys can be performed by using this manual. Color photographs and drawings illustrate the distresses found in three basic pavement types; asphalt concrete-surfaced; jointed (plain and reinforced) portland cement concrete; and continuously reinforced concrete. Drawings of the distress types provide a reference to assess their severity. Methods for measuring the size of distresses and for assigning severity levels are given. The manual also describes how to conduct the distress survey, from obtaining traffic control to measuring the cracks in the pavement. Sample forms for recording and reporting the data are included. The manual also tells how to calibrate and operate fault measurement devices. (154 pages)
- L007 LTAP Resource Directory, National Local Technology Assistance Program, 2000**  
This directory lists LTAP courses, manuals, videotapes, computer programs, and other resources available and their costs, if any. (246 pages)

- L008**    **Innovative Devices for Safer Work Zones, Federal Highway Administration, 1995**  
Publication FHWA-SA-95-029  
This brochure includes work zone safety devices developed through the Strategic Highway Research Program. (13 pages)
- L009**    **Emergency Relief Manual (Federal-Aid Highways), Federal Highway Administration, 2003**  
This manual is an "interim update" of the emergency relief (ER) manual that was published in September of 1998. It provides updated guidance and instructions on the Federal Highway Administration's (FHWA) emergency relief (ER) program. This manual provides information for FHWA, State, and local transportation agency personnel on policies and procedures for requesting, obtaining and administering ER funds. This "interim update" manual replaces the Emergency Relief Manual, Publication Number FHWA-PD-98-054, published in September 1998. (75 pages)
- L010**    **LTAP Solutions, Federal Highway Administration, 1995**  
This pamphlet describes the Local Technical Assistance Program and the services it provides to local agencies. (16 pages)
- L011**    **Highway/Utility Guide, Federal Highway Administration, 1993**  
Publication FHWA-SA-93-049  
This guide discusses better practices to follow to address issues arising from highway and utility facilities sharing common right-of-way. (297 pages)
- L012**    **Crumb Rubber Modifier, Federal Highway Administration, 1992**  
This guide describes the design and construction of asphalt paving materials with crumb rubber modifier. ( pages)
- L013**    **The Superpave System, Federal Highway Administration, 1996**  
Publication FHWA-SA-96-010  
This booklet explains what the Superpave System is and its advantages over traditional hot-mix asphalt. (8 pages)
- L014**    **Utility Cuts In Paved Roads, Federal Highway Administration, 1996**  
Publication FHWA-SA-97-049  
This pocket guide focuses on making and restoring utility cuts in a timely and safe manner, with as little disruption of traffic and commerce as possible, without leaving behind a defective pavement. Proper procedures, precautions, work steps, methods, equipment and materials are highlighted. (36 pages)
- L015**    **LTAP Asphalt and Chip Seal Checklist, Federal Highway Administration, 1997**  
Publication FHWA-SA-97-046  
This pocket guide provides checklists for asphalt paving inspection and chip seal application to help the user follow proper procedures. (13 pages)
- L016**    **Salt Storage Handbook, Salt Institute, 1989**  
This publication is an excellent guide discussing the ordering, storing and handling of deicing salt. Environmental issues of salt storage are also explained. (18 pages)
- L017**    **Problems Associated with Gravel Roads, Federal Highway Administration, 1998**  
Publication FHWA-SA-98-045  
This publication discusses the basics of gravel roads, environmental influences, surface aggregates, problems and solutions, equipment and techniques, and geotextiles. (155 pages)
- L018**    **Improving Highway Safety at Bridges on Local Roads, Federal Highway Administration, 1998**  
This publication is a general guide to effective, low-cost methods of improving and enhancing bridge and bridge approach safety. This is not a design manual, but a guide to identify existing inadequacies and suggestions for cost-effective, improvements. (35 pages)
- L019**    **Gravel Roads Maintenance & Design Manual, South Dakota Local Technology Assistance Program, 2000**  
The purpose of this manual is to provide clear and helpful information for doing a better job of maintaining gravel roads. This manual contains guidelines to help answers questions about the maintenance of gravel roads. (91 pages)

- L020**    **Real Estate Acquisition Guide, Federal Highway Administration, 2003**  
Publication FHWA-PD-93-027  
This guide is intended to serve as a basic reference for local public agencies and others who receive Federal-aid highway funds for projects involving the acquisition of real property (95 pages)
- L021**    **Intelligent Transportation Systems: Peer to Peer Program, Federal Highway Administration, 2002**  
Publication FHWA-OP-00-006  
Brochure on the peer to peer program. This program provides assistance through its network of over 120 USDOT-approved ITS professionals who have planned, implemented and operated ITS in urban and rural areas. (2 pages)
- L022**    **Excavator Handbook, JULIE, 2002**  
Helps excavators understand what is necessary to ensure safe digging from start to finish. (32 pages)
- L023**    **Traffic Control Handbook for Mobile Operations at Night, Federal Highway Administration, 2003**  
Publication FHWA-SA-03-026  
This report is a synthesis of current practices for performing mobile operations at night. The information presented in this report is based on a review of work zone manuals from a selection of state and local highway agencies, discussions with highway officials, and field observations of a select number of nighttime highway mobile work zone operations. (53 pages)
- L024**    **Materials and Procedures for Sealing and Filling Cracks in Asphalt-Surfaced Pavements, Federal Highway Administration, 2001**  
Publication FHWA-RD-99-147  
This publication is an updated version of the 1993 SHRP Crack Sealing and Filling Manual. It contains the latest information pertaining to the performance of treatment materials and methods, the availability and relative costs of sealant/filler materials, and the proper ways of planning, designing, constructing, and monitoring the performance of crack treatment projects. It also provides an updated partial listing of material and equipment manufacturers. (94 pages)
- L025**    **Materials and Procedures for Rapid Repair of Partial-Depth Spalls in Concrete Pavements, Federal Highway Administration, 2001**  
Publication FHWA-RD-99-152  
This Manual of Practice is an updated version of the 1993 SHRP Spall Repair Manual. It contains the latest information pertaining to the performance of repair materials and methods, the availability and relative costs of repair materials, and the proper ways of planning, designing, constructing, and monitoring the performance of partial-depth spall repair projects. It also provides an updated partial listing of material and equipment manufacturers. (135 pages)
- L026**    **The Snowfighter's Handbook, Salt Institute, 1999**  
This manual prepared by the Salt Institute is dedicated to the thousands of men and women in public works agencies at all levels whose task is providing safe streets and highways during winter storms. (22 pages)
- L027**    **Basic Traffic Control For Utility Operations, Federal Highway Administration, 2003**  
FHWA-SA-03-004  
This guide is provided as a quick reference to utility companies working with temporary traffic control. It is based on the standards and guidelines found in Part 6 of the Manual on Uniform Traffic Control Devices (MUTCD) and the requirements of the Americans with Disabilities Act (ADA). This guide is not intended to be used in lieu of the appropriate standards and specific local requirements. (50 pages)



**L028 Accessible Sidewalks and Street Crossings- an informational guide, Federal Highway Administration, 2003**

FHWA-SA-03-19

In order to meet the needs of sidewalk users, designers must have a clear understanding of the wide range of abilities that occur within the population. Sidewalks, like roadways, should be designed to serve all users. This includes children, older people, parents with strollers, pedestrians who have vision impairments and people using wheelchairs or other assistive devices. Just as a roadway will not be designed for one type of vehicle, the design of sidewalks should not be limited to only a single type of pedestrian user. Because the sidewalk is the basic unit of mobility within our overall system of transportation, every route and facility must be usable. The intent of this guide is to focus on some of the emerging accessibility issues and the design parameters that affect sidewalk and street crossing design and operation. (39 pages)

**L029 Primer: GASB 34, Federal Highway Administration, 2000**

FHWA-IF-00-010

This primer outlines the accounting requirements required by the Governmental Accounting Standards Board Statement 34 (GASB 34). (48 pages)

**L030 2004 Emergency Response Guidebook, United States Department of Transportation, 2004**

The 2004 Emergency Response Guidebook (ERG2004) was developed jointly by Transport Canada (TC), the U.S. Department of Transportation (DOT), the Secretariat of Transport and Communications of Mexico (SCT) and with the collaboration of CIQUIME (Centro de Información Química para Emergencias) of Argentina, for use by fire fighters, police, and other emergency services personnel who may be the first to arrive at the scene of a transportation incident involving dangerous goods. It is primarily a guide to aid first responders in quickly identifying the specific or generic hazards of the material(s) involved in the incident, and protecting themselves and the general public during the initial response phase of the incident. For the purposes of this guidebook, the initial response phase is that period following arrival at the scene of an incident during which the presence and/or identification of dangerous goods is confirmed, protective actions and area securement are initiated, and assistance of qualified personnel is requested. It is not intended to provide information on the physical or chemical properties of dangerous goods. (372 pages)

**L031 Signalized Intersections: Informational Guide, Federal Highway Administration, 2004**

This guide provides a single, comprehensive document with methods for evaluating the safety and operations of signalized intersections and tools to remedy deficiencies. The treatments in this guide range from low-cost measures such as improvements to signal timing and signage, to high-cost measures such as intersection reconstruction or grade separation. Topics covered include fundamental principles of user needs, geometric design, and traffic design and operation; safety and operational analysis techniques; and a wide variety of treatments to address existing or projected problems, including individual movements and approaches, pedestrian and bicycle treatments, and corridor techniques. It also covers alternative intersection forms that improve intersection performance through the use of indirect left turns and other treatments. Each treatment includes a discussion of safety, operational performance, multimodal issues, and physical and economic factors that the practitioner should consider. Although the guide focuses primarily on high-volume signalized intersections, many treatments are applicable for lower volume intersections as well. The information contained in this guide is based on the latest research available on treatments and best practices in use by jurisdictions across the United States. Additional resources and references are highlighted for the student, practitioner, researcher, or decisionmaker who wishes to learn more about a particular subject. (369 pages)

**Facts, Tips, Bits:**

**FTB1 Life Cycle Cost Analysis, Illinois Department of Transportation, 1998**

Explains and provides examples to improve money management. Equipment purchase/repair decisions and maintenance alternatives can be compared to make the most informed decision. (4 pages)

**FTB2 Motor Grader Maintenance of Aggregate Surfaced Roads, Illinois Department of Transportation, 1998**

Provides the reader with information on various motor grader operations for maintaining aggregate surfaced roads. These operations include drainage and crowning, smoothing (dragging), blading superelevations, reshaping, and blading at intersections. A motor grader is a complex and powerful machine. Proper operation and maintenance practices will provide more economical and safer aggregate roads for the rural user. (4 pages)

**FTB3 Anti-Icing Technology, Illinois Department of Transportation, 1998**

Provides information on winter anti-icing strategies and the use of new chemicals and practices to improve snow and ice control. This article provides case studies examining the effectiveness of anti-icing, test results, the importance of team participation and post storm assessment. Anti-icing has been shown to improve service levels, reduce maintenance costs, improve air quality and can be applied during better road conditions. (4 pages)

# Publication Library

The CD Library offers various material and/or software on a CD-ROM. All are provided free of charge. The CDs available are:

**C001    Manual on Uniform Traffic Control Devices (MUTCD), Various, 2005**

This CD-ROM contains PDF files of the Federal Manual on Uniform Traffic Control Devices, the Illinois Manual on Uniform Traffic Control Devices, and the Federal Standard Highway Signs Manual. (15 MB)

**C002    Positive Protection for Workers, Illinois Department of Transportation - Bureau of Safety Engineering, 2005**

This CD-ROM provides an overview of Temporary Concrete Barriers (TCBs) and Shadow Vehicles used as positive protection for highway construction and maintenance work zones. (99 MB)



## Appendix A: Alphabetical Index

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